Your success counts



Ratio Monitor / Totalizer

with high / low alarms and analog output



























Red flashing LED backlight in case of a ratio alarm.

The F-Series is your first and safest choice for field mount indicators in safe and hazardous area applications. Especially in harsh weather conditions like rain, snow, salty atmospheres and temperatures between -40°C up to +80°C (-40°F up to 176°F).

Advantages

- Robust aluminum or stainless steel 316L field enclosure (IP67 / NEMA Type4X). It is so rugged, a truck can even stand on it!
- Intrinsically Safe available ATEX and IECEx approval for gas and dust applications.
- Programming can be done by your own crew, with the sensible menu-driven structure, saving cost and irritation. Know one, know them all!
- Very diverse mounting possibilities: walls, pipes, panels or

Features

- Calculates ratio between flow A & B.
- Displays ratio, flow rate A and B and total A & B (resettable).
- 4 alarm values: low-low, low, high and high-high ratio alarm.
- Large 17mm (0.67") digits.
- LED backlight option.
- Ability to process all types of signals: Sine wave (coil), NAMUR, NPN/PNP pulse, Reed-switch, Active pulse signals.
- Up to three free configurable alarm outputs.
- Analog (loop powered) according to the calculated ratio, flow rate A or flow rate B.
- Full Modbus communication RS232/485/TTL.
- Power requirements: Loop or battery powered, 8 30V DC 8 - 24V AC/DC or 115 - 230V AC.
- Sensor supply: 3 / 8.2 / 12 / 24V DC.
- Auto backup of settings and running totals.



Introduction

The flowcomputer Model F114 has been developed to calculate and monitor the actual ratio between two separate flows. Typical applications are found where locally a two component product is mixed, for example in construction works, roof or wall isolation, glueing and coating. The F114 offers the facility to set two low ratio and two high ratio alarm values. Special precautions are taken to allow start-up problems and incorrect ratio readings for a certain period of time. Based on the location of the flowmeters, a selection can be made out of six different formulas. A wide selection of options further enhances the capabilities of this model.

Display

The display has large 17mm (0.67") and 8mm (0.31") digits which show the ratio, alarm values, flow rate A, total A and flow rate B, total B. On-screen engineering units are easily configured from a comprehensive menu. The ratio can be displayed as 1:__ or as a percentage.

Configuration

All configuration settings are accessed via a simple operator menu which can be password protected. Each setting is clearly indicated with an alphanumerical description, which avoides confusing abbreviations and baffling codes. Once familiar with one F-series product, you will be able to program all models in the series without a manual. All settings are safely stored in EEPROM memory in the event of sudden power failure.

Communication

All process data and settings can be read and modified manually or through the Modbus communication link (RS232 / RS485). Full Modbus functionality remains available for the Intrinsically Safe version (TTL).



Alarm output

Up to three free configurable outputs are available to transmit the ratio alarm condition. The output signals can be a passive NPN, active PNP or an isolated electro-mechanical relay. Two outputs are available in Intrinsically Safe applications.

Hazardous areas

This model is ATEX and IECEx certified as Intrinsically Safe for gas applications with an allowed ambient temperature of -40°C to +70°C (-40°F to +158°F) and dust applications with an allowed ambient temperature of -40°C to +50°C (-40°F to +122°F). A flame proof Ex d enclosure with ATEX/IECEx certification is also available.

Analog output signal

The calculated ratio, flow rate A or B can be re-transmitted with the (0)4 - 20mA or 0 - 10V DC output signal. The output signal is updated eight times per second. The output value is user defined in relation to the ratio or flow rate, e.g. 4mA equals to 1:50 and 20mA equals to 1:1. The output signal can be passive, active or isolated where the passive output type will loop power the F114.







Easy to install



Easy to program



Know one know them all!



Reliable

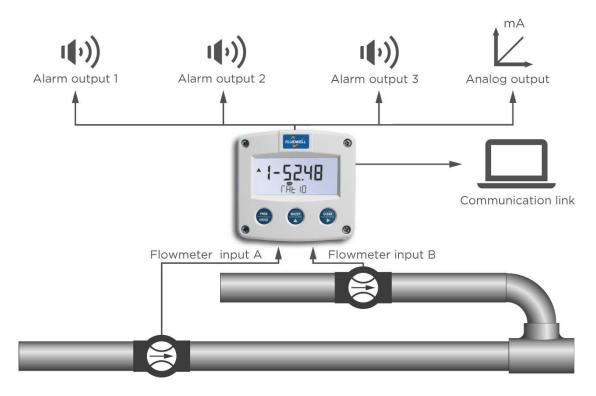


User-friendly



Overview application F114

The F-Series is your first and safest choice for field mount indicators in safe and hazardous area applications. Especially in harsh weather conditions like rain, snow, salty atmospheres and temperatures between -40°C up to +80°C (-40°F up to 176°F). Two component applications like glueing, blending or mixing where continuous ratio monitoring and/or totalizing is important.



Signal input

The F114 accepts most pulse input signals for volumetric flow or mass flow measurement. The input signal types can be selected by the user in the configuration menu without having to adjust any sensitive mechanical dip-switches or jumpers.

Type of signal	Resistance	Low Pass filter (LP)	Max. frequency	Max. frequency Low Pass filter (LP)	Min. amplitude P-P	Remark
NPN	100kΩ pull-up	100kΩ pull-up	6kHz Threshold 1.2V	1.2kHz		Open collector
REED	1MΩ pull-up	1MΩ pull-up	1.2kHz Threshold 1.2V	120Hz		
PNP	100KΩ pull-down	100KΩ pull-down	6kHz Threshold 1.2V	1.2kHz		
NAMUR	820Ω pull-down	-	4kHz	-		External power required
COIL LO	-	-		-	80mV _{pp}	Default sensitivity
COIL-HI					20mV _{pp}	Sensitive for
COIL-HI (Type ZF)	-		-		10mV _{pp}	interference!
ACTIVE 8.2V DC	3Κ9Ω		10kHz Threshold 4V			External power required
ACTIVE 12V DC	4ΚΩ		10kHz Threshold 6V			External power required
ACTIVE 24V DC	3ΚΩ		10kHz Threshold 12V			External power required

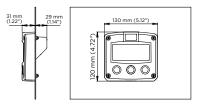


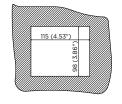
Enclosures

Various types of enclosures can be selected, all ATEX and IECEx approved. The F114 is supplied in an GRP panel mount enclosure as standard, which can be converted to an IP67 / NEMA Type4X GRP field mount enclosure by the addition of a back case. Most popular is our robust aluminum field mount enclosure which is also available with an extended backcover with undrilled preparation for direct meter mounting at the back side. It is so rugged, even a truck can stand on it! For the most challenging environments we have a durable high grade Stainless steel 316L enclosure. All enclosures have a IP67 / NEMA Type4X rating and EU or U.S. cable gland entry threads available.

Dimensions enclosures

Aluminum & GRP panel mount enclosure

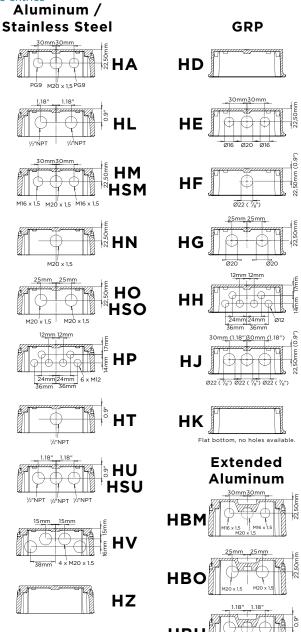




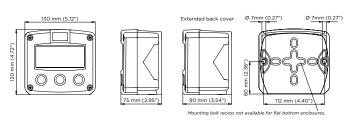
HB & HC enclosures

panel cut-out

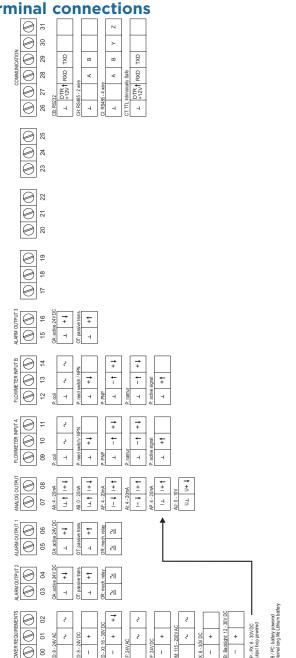
Cable entries



Aluminum, GRP & Stainless steel 316L field mount enclosures

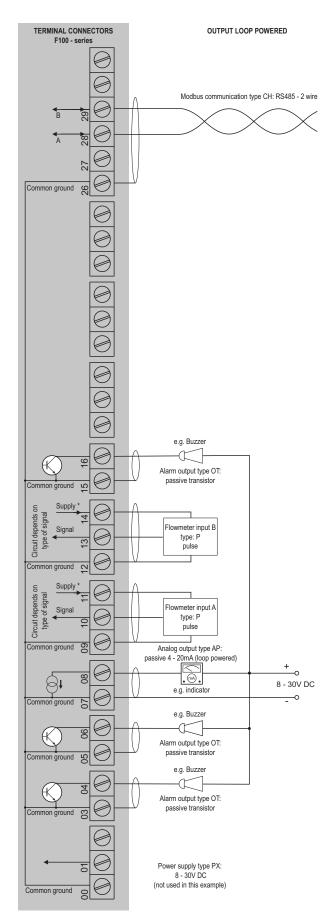


Terminal connections



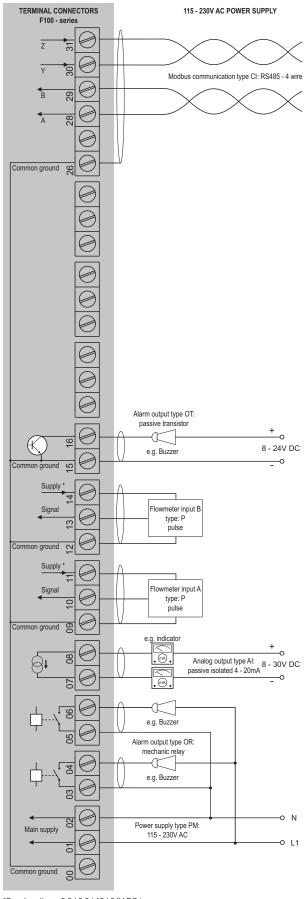


Configuration example F114-P-AP-CH-OT-(PX)-XX-ZX



* For pulse type inputs: V_{nai}, 1.2V/3.0V available.- NO power output, available I_{supply}: <1mA. Note: using these ref. voltages at max. load, will reduce battery life significantly.</p>

Configuration example F114-P-AI-CI-OR-PM-XX-ZX



^{*}Supply voltage: 3.2 / 8.2 / 12 / 24V DC to sensor



Hazardous area applications

The F114-XI has been certified according to ATEX and IECEx by DEKRA for use in Intrinsically Safe applications with an ambient temperature of -40°C to +70°C (-40°F to +158°F).

For equipment category Dust, zone 20 (1 D / EPL Da), the maximum ambient temperature is limited to 50° C (+122°F) and a maximum dust layer thickness of 200mm.

• The ATEX markings for gas and dust applications are:

Gas: II 1 G Ex ia IIB/IIC T4 Ga.

Dust: II 1 D Ex ia IIIC T₂₀₀ 100 °C Da.

• The IECEx markings for gas and dust applications are:

Gas: Ex ia IIC/IIB T4 Ga. Dust: Ex ia IIIC T_{200} 100 °C Da.

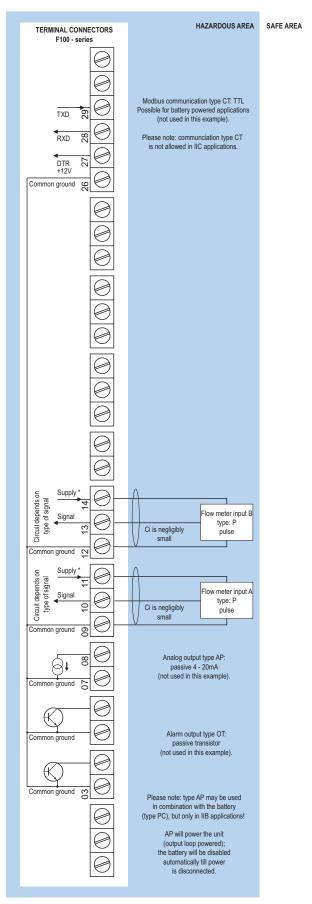
Besides the two I.S. power supplies for the alarm outputs, it is allowed to connect up to four I.S. power supplies in IIB/IIIC applications or one in IIC applications. Consult the certificate for the maximum input and output values of the circuits. Full functionality of the F114 remains available, including 4 - 20mA output, alarm outputs and Modbus communication (type CT). Power supply type PD-XI offers a 8.2V sensor supply e.g. for two Namur sensors. An ATEX/IECEx approved flame proof Ex d enclosure is available as well. Please contact your supplier for further details.

Certificate of conformity KEMA 03ATEX1074 X

• IECEX DEK 11.0042X



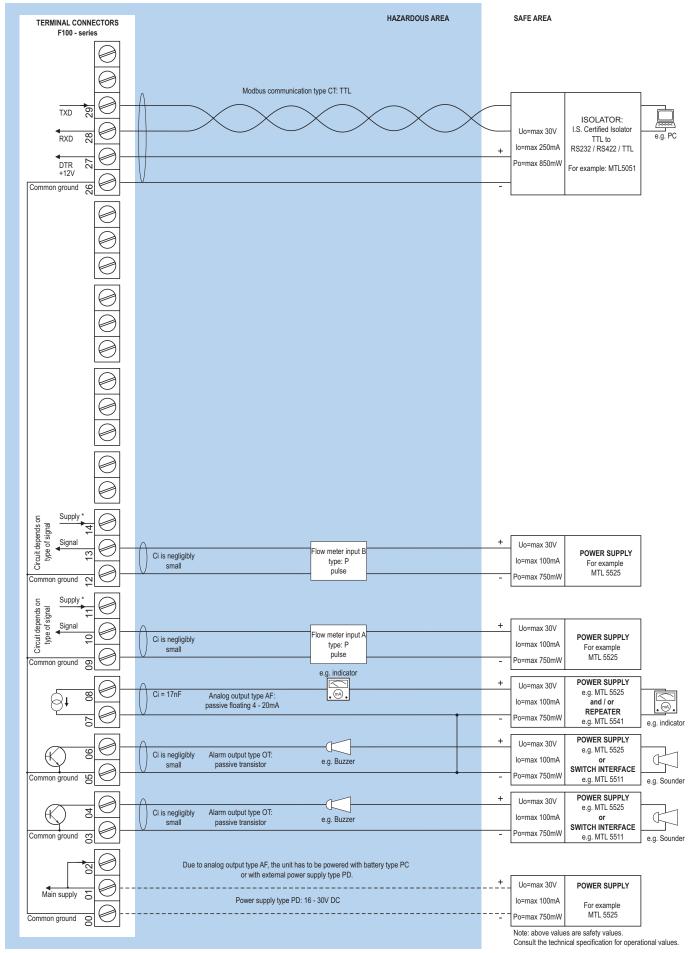
Configuration example IIB / IIIC and IIC F114-P-(AP)-(CT)-(OT)-PC-XI - Battery powered unit



For pulse type inputs: $V_{\rm ref.}$ 1.2V/3.0V available.- NO power output, available I $_{\rm susphy}$: <1mA. Note: using these ref. voltages at max. load, will reduce battery life significantly.



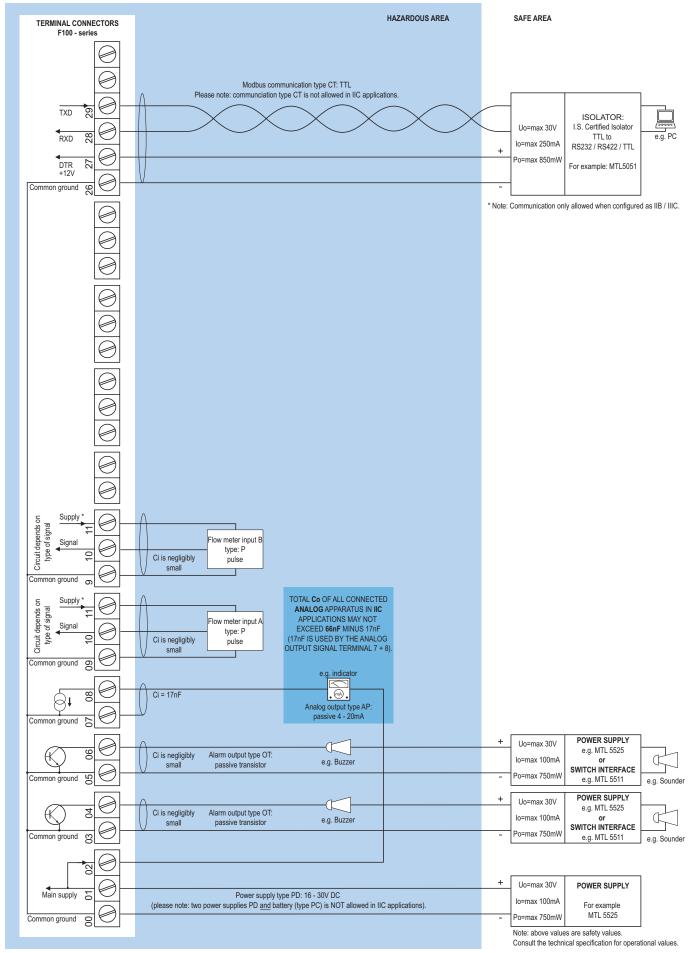
Configuration example IIB / IIIC and IIC - F114-P-AP-(CT)-OT-(PX)-XI - Output loop powerd



^{*} Note power supply type PD: the supply voltage to pulse sensors is maximum 8.7V (Uo=max 8.7V lo=max 25mA Po=max 150mW) and to analog sensors as connected to terminal 1 (internally linked).



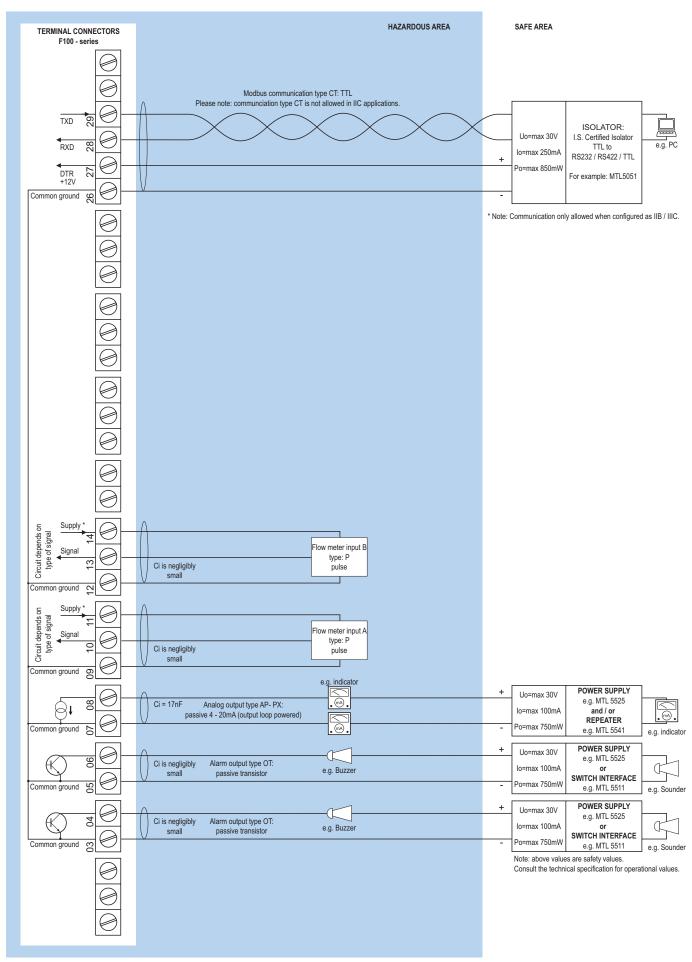
Configuration example IIB / IIIC and IIC - F114-P-AP-(CT)-OT-PD-XI - Power supply 16 - 30V DC



^{*} Note power supply type PD: the supply voltage to pulse sensors is maximum 8.7V (Uo=max 8.7V lo=max 25mA Po=max 150mW) and to analog sensors as connected to terminal 1 (internally linked).



Configuration example IIB / IIIC - F114-P-AF-CT-OT-(PC)-(PD)-XI - Power supply 16 - 30V DC or battery powered



For pulse type inputs: V_{ral}: 1.2V/3.0V available.- NO power output, available I_{supply}: <1mA. Note: using these ref. voltages at max. load, will reduce battery life significantly.</p>



Display

Туре	High intensity reflective numeric and
	alphanumeric LCD, UV-resistant.
Dimensions	90 x 40mm (3.5" x 1.6").
Digits	Seven 17mm (0.67") and eleven 8mm (0.31")
	digits. Various symbols and measuring units.
Refresh rate	User definable: fast, 1sec , 3sec, 15sec, 30sec, off.
Option ZB	Transflective LCD with white LED-backlight.
	Good readings in full sunlight and darkness.
Note ZB	Only available for safe area applications.

Ambient temperature

Safe areas	-40°C to +80°C (-40°F to +176°F).
Intrinsically Safe	-40°C to +70°C (-40°F to +158°F).
Dust, zone 20	-40°C to +50°C (-40°F to +122°F).

Terminal connections

Туре	Removable plug-in terminal strip. Wire max.
	1.5mm ² and 2.5mm ² .

Data protection

Password	Configuration settings can be password protected.
	least 10 years.
	running totals every minute. Data retention at
Туре	EEPROM backup of all settings. Backup of

Directives & Standards

IP & NEMA	EN 60529 & NEMA 250
	IEC 60079-11.
ATEX / IECEx	Directive 2014/34/EU, IEC 600079-0,
RoHS	Directive 2011/65/EU
Low voltage	Directive 2014/35/EU
EMC	Directive 2014/30/EU, FCC 47 CFR part 15.

Intrinsically Safe (Type XI)

membedany	
ATEX	Gas: II 1 G Ex ia IIB/IIC T4 Ga.
	Dust: II 1 D Ex ia IIIC T ₂₀₀ 100 °C Da.
IECEx	Gas: Ex ia IIC/IIB T4 Ga.
	Dust: Ex ia IIIC T ₂₀₀ 100 °C Da.
Ambient Ta	-40°C to +70°C (-40°F to +158°F).
Dust. zone 20	-40°C to +50°C (-40°F to +122°F).

Explosion proof (Type XF)

ATEX/IECEX Gas: II 2 G Ex db IIB+H2 T5 Gb.	
	Dust: II 2 D Ex tb IIIC T80°C.
Protection	IP66
Type XF	Dimensions of enclosure: 300 x 250 x 200mm
	(11.8" x 9.9" x 7.9") L x H x D.
Weight	Appr. 15kg.

Enclosure

Window	Polycarbonate window.
Sealing	Silicone.
Control keys Three industrial micro-switch keys. UV-re	
	silicone keypad.

Panel mount enclosures

Dimensions	130 x 120 x 60mm (5.12" x 4.72" x 2.36") - W x H x D.
Panel cut-out	115 x 98mm (4.53" x 3.86") L x H.
Туре НВ	Die-cast aluminum panel mount enclosure IP65 /
	NEMA Type4X.
Weight	600 gr.
Type HC	GRP panel mount enclosure IP65 / NEMA
	Type4X, UV-resistant and flame retardant.
Weight	450 gr.
Type HSB	Die-cast stainless steel 316L IP67 / NEMA
	Type4X.
Weight	1150gr.

GRP wall / field mount enclosures

General GRP wall/field mount enclosure IP67 / NE	
	Type4X, UV-resistant and flame retardant.
Dimensions	130 x 120 x 75mm (5.12" x 4.72" x 2.95") - W x H x D.
Weight	600 gr.
Type HD	Cable entry: no holes.
Type HE	Cable entry: 2 x Ø 16mm and 1 x Ø 20mm.
Type HF	Cable entry: 1 x Ø 22mm (%").
Type HG	Cable entry: 2 x Ø 20mm.
Type HH	Cable entry: 6 x Ø 12mm.
Type HJ	Cable entry: $3 \times \emptyset$ 22mm ($\frac{7}{8}$ ").
Type HK	Flat bottom, cable entry: no holes.

Aluminum wall / field mount enclosures

Aluminum wall / field mount enclosures		
General	Die-cast aluminum wall/field mount enclosure	
	IP67 / NEMA Type4X with 2-component	
	UV-resistant coating.	
	Extended back cover available with undrilled	
	preparation for direct meter mounting.	
Dimensions	130 x 120 x 75mm (5.12" x 4.72" x 2.95") - W x H x D.	
	130 x 120 x 90mm (5.12" x 4.72" x 3.54") - W x H x D.	
Weight	1100 gr. / extended enclosure: 1310 gr.	
Туре НА	Cable entry: 2 x PG9 and 1 x M20.	
Type HL	Cable entry: 2 x ½" NPT.	
Type HM/HBM	Cable entry: 2 x M16 and 1 x M20.	
Type HN	Cable entry: 1 x M20.	
Type HO/HBO	Cable entry: 2 x M20.	
Type HP	Cable entry: 6 x M12.	
Туре НТ	Cable entry: 1 x $\frac{1}{2}$ " NPT.	
Type HU/HBU	Cable entry: 3 x ½" NPT.	
Type HV	Cable entry: 4 x M20.	
Type HZ	Cable entry: no holes.	

Stainless steel 316L wall / field mount enclosures

	<u> </u>
General	Die-cast stainless steel 316L wall / field mount
	enclosure with flat bottom. IP67 / NEMA
	Type4X.
Dimensions	130 x 120 x 75mm (5.12" x 4.72" x 2.95") - W x H x D.
Weight	2700 gr.
Type HSM	Cable entry: 2 x M16 + 1 x M20.
Type HSO	Cable entry: 2 x M20.
Type HSU	Cable entry: 3 x ½"NPT.



Signal	in	nute	- El	lowm	atar
Sidilai		DULS			leter

Type P	Coil / sine wave (HI: 20mVpp or LO: 80mVpp -
	sensitivity selectable), NPN/PNP, open collector,
	reed switch, Namur, active pulse signals 8 - 12
	and 24V DC.
Frequency	Minimum OHz - maximum 6kHz for total and
	flow rate. Maximum frequency depends on signal
	type and internal low-pass filter. E.g. reed switch
	with low-pass filter: max. frequency 120Hz.
K-Factor	0.000010 - 9,999,999 with variable decimal
	position.
Low-pass filter	Available for all pulse signals.
Option ZF	coil sensitivity 10mVpp.

Signal outputs - Alarm output

Function	User defined: low, low-low, high, high-high or all
	alarms output.
Type OA	Three active 24V DC transistor outputs (PNP);
	max. 50mA per output (requires PD, PF, PM or
	PX). Requires min. 24V power supply.
Type OR	Two electro-mechanical relay outputs - isolated
	(N.O.) - max. switch power 230V AC - 0.5A
	(requires PF or PM) and one transistor output OT.
Type OT	Three passive transistor outputs (NPN) - not
	isolated. Max. 50V DC - 300mA per output.
Note	Intrinsically Safe applications: only two transistor
	outputs type OT available.

Signal outputs - Analog output

-	
Function	Transmitting ratio, flow rate A or flow rate B.
Accuracy	10 bit. Error < 0.05%. Analog output signal can
	be scaled to any desired range.
Update time	Eight times per second.
Type AA	Active 4 - 20mA output (requires PD, PF, PM or PX).
Type AB	Active 0 - 20mA output (requires PD, PF, PM or PX).
Type AF	Passive floating 4 - 20mA output for
	Intrinsically Safe applications (requires XI + PD).
Type AI	Passive galvanically isolated 4 - 20mA output -
	also available for battery powered models.
Type AP	Passive 4 - 20mA output - not isolated. Unit will
	be loop powered.
Type AU	Active 0 - 10V DC output (requires PD, PF, PM or
	PX). Requires min. 12V power supply.

Signal outputs - Communication option

Function	Reading display information, reading / writing all
	configuration settings.
Protocol	Modbus ASCII / RTU.
Speed	1200 - 2400 - 4800 - 9600 baud.
Addressing	Maximum 255 addresses.
Type CB	RS232
Type CH	RS485 2-wire
Type CI	RS485 4-wire
Type CT	TTL Intrinsically Safe.

Mounting accessories

ACF02	Stainless steel wall mounting kit.
ACF05	Stainless steel pipe mounting kit
	(worm gear clamps not included).
ACF06	Two stainless steel worm gear clamps
	Ø 44 - 56mm.
ACF07	Two stainless steel worm gear clamps
	Ø 58 - 75mm.
ACF08	Two stainless steel worm gear clamps
	Ø 77 - 95mm.
ACF09	Two stainless steel worm gear clamps
	Ø 106 - 138mm.
ACF11	Swivel with 25° movement from center axis for
	direct flowmeter mounting: 1" NPT to 1/2" NPT.

Cable glands

ACF20	For HA enclosure, includes O-rings.
ACF25	For HE enclosure, includes locknuts and O-rings.
ACF26	For HF enclosure, includes locknuts and O-rings.
ACF27	For HG enclosure, includes locknuts and O-rings.
ACF28	For HH enclosure, includes locknuts and O-rings.
ACF29	For HJ enclosure, includes locknuts and O-rings.
ACF32	For HM enclosure, includes O-rings.
ACF33	For HN enclosure, includes O-rings.
ACF34	For HO enclosure, includes O-rings.
ACF35	For HP enclosure, includes O-rings.
ACF39	For HT enclosure, includes O-rings.
ACF40	For HU enclosure, includes O-rings.

Blind plugs

ACF50	For HA enclosure, includes O-rings.
ACF55	For HE enclosure, includes locknuts and O-rings.
ACF56	For HF enclosure, includes locknuts and O-rings.
ACF57	For HG enclosure, includes locknuts and O-rings.
ACF58	For HH enclosure, includes locknuts and O-rings.
ACF59	For HJ enclosure, includes locknuts and O-rings.
ACF62	For HM enclosure, includes O-rings.
ACF63	For HN enclosure, includes O-rings.
ACF64	For HO enclosure, includes O-rings.
ACF65	For HP enclosure, includes O-rings.
ACF69	For HT enclosure, includes O-rings.
ACF70	For HU enclosure, includes O-rings.

Intrinsically Safe isolators

IIIti IIIsicai	ily Sale isolators
ACG01	MTL5511 - One channel pulse or switch output
	transfer from hazardous area to safe area.
ACG02	MTL5525 - One channel power supply from
	safe area to hazardous area (e.g. to power the
	unit with PD or to power a switching or analog
	device in hazardous area).
ACG03	MTL5541 - One channel 4 - 20mA repeater from
	hazardous area to safe area.
ACG04	MTL 5051 - Bi-direction serial-data-isolator
	(for Modbus communication).
ACG05	MTL5516C - Two channel pulse or switch output
	transfer from hazardous area to safe area.
ACG06	MTL5513 - One channel pulse or switch output
	transfer from hazardous area to safe area.
ACG07	MTL5546Y - One channel isolated driver
	bringing 4 - 20mA from safe area to hazardous
	area, HART transparent, OCD.



Power requirements

Tower require	CITICITES
Type AP	Analog output loop powered, 8 - 30V DC.
	Power consumption max 0.5 Watt.
Type PB	Long life Lithium battery - life-time depends
	upon settings and configuration - up to 5 years.
	(requires PD or PX)
Type PC	Intrinsically Safe long life lithium battery
	life-time depends upon settings and
	configuration - up to 5 years.
	(requires XI and PD or PX)
Type PD	8 - 24V AC / DC ± 10%. Power consumption
	max. 5W. Intrinsically Safe: 16 - 30V DC; power
	consumption max. 1 W.
Type PF	24V AC / DC ± 10%. Power consumption max. 15W.
Type PM	115 - 230V AC ± 10%. Power consumption max. 15W.
Type PX	8 - 30V DC. Power consumption max. 0.75W.
Type ZB	12 - 30V DC ± 10%. Power consumption max. 1.5W.
Note PB/PF/PM	Not available Intrinsically Safe.
Note PF/PM	The total consumption of the sensors and
	outputs may not exceed 400mA @ 24V.
Note XI	For Intrinsically Safe applications, consult the
	safety values in the certificate.

Sensor excitation

Selisor excita	ition —
Type PB/PC/PX	3V DC for pulse signals and 1.2V DC for coil pick-up.
Note PB/PC/PX	This is not a real sensor supply. Only suitable for
	sensors with a very low power consumption like
	coils (sine wave) and reed-switches.
Type PD	1.2 / 3 / 8.2 / 12 / 24V DC - max. 50mA @
	24V DC. U_{max} sensor is 2V below U_{supply}
Type PD-XI	1.2 / 3 / 8.2V DC - max. 7mA @ 8.2V DC and
	mains power supply voltage (as connected to
	terminal 1).
Type PF / PM	1.2 / 3 / 8.2 / 12 / 24V DC - max. 400mA @ 24V DC.

Operator functions

Displayed info	• Ratio.
	• Low-low, Low, High and High-high ratio alarm value.
	 Flow rate and total A + B (can be hidden).
	 Alarm values can be set (or only displayed).
	 Total can be reset to zero by pressing the
	CLEAR-key twice.

Ratio

Digits	5 digits.
Units	1 - xxx or %.
Decimals	3.

Total

Digits	7 digits.
Units	L, m³, GAL, USGAL, kg, lb, bbl, no unit.
Decimals	0 - 1 - 2 or 3.
Note	Total can be reset to zero.

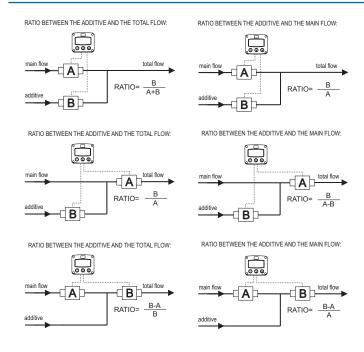
Flow rate

Digits	7 digits.
Units	mL, L, m³, Gallons, kg, Ton, lb, bl, cf, RND, ft³, scf,
	Nm³, NI, igal - no units.
Decimals	0 - 1 - 2 or 3.
Time units	/sec - /min - /hr - /day.

Alarm values

Digits	7 digits.
Units	According to selection for ratio.
Decimals	According to selection for ratio.
Type of alarm	Low, high, low-low or high-high ratio alarm.
	Includes alarm delay time and configurable
	alarm outputs.

Ratio





Property P			Description
AA	Model	F114	Ratio monitor / totalizer with high / low alarms and analog output.
AB	Input	Р	Pulse input, e.g., coil, npn, pnp, namur, reed-switch.
AU Active 0 - 10 V DC output - requires XX and PD, PF, PM or PX. C C Communication RS 248 - Awire - Modbus ASCII / RTU - requires XX. CH Communication RS 485 - 2wire - Modbus ASCII / RTU - requires XX. CT Intrinsically Safe TTL - Modbus ASCII / RTU - requires XX. CT Intrinsical RTU -		AA	Active 4 - 20mA output - requires XX and PD, PF, PM or PX.
AU Active 0 - 10 V DC output - requires XX and PD, PF, PM or PX. C C Communication RS 248 - Awire - Modbus ASCII / RTU - requires XX. CH Communication RS 485 - 2wire - Modbus ASCII / RTU - requires XX. CT Intrinsically Safe TTL - Modbus ASCII / RTU - requires XX. CT Intrinsical RTU -	ind	AB	Active 0 - 20mA output - requires XX and PD, PF, PM or PX.
AU Active 0 - 10 V DC output - requires XX and PD, PF, PM or PX. C C Communication RS 248 - Awire - Modbus ASCII / RTU - requires XX. CH Communication RS 485 - 2wire - Modbus ASCII / RTU - requires XX. CT Intrinsically Safe TTL - Modbus ASCII / RTU - requires XX. CT Intrinsical RTU -	ont	AF	I.S. floating 4 - 20mA output - requires XI + PD.
AU Active 0 - 10 V DC output - requires XX and PD, PF, PM or PX. C C Communication RS 248 - Awire - Modbus ASCII / RTU - requires XX. CH Communication RS 485 - 2wire - Modbus ASCII / RTU - requires XX. CT Intrinsically Safe TTL - Modbus ASCII / RTU - requires XX. CT Intrinsical RTU -	00	Al	Isolated 4 - 20 mA output - requires XX.
AU Active 0 - 10 V DC output - requires XX and PD, PF, PM or PX. C C Communication RS 248 - Awire - Modbus ASCII / RTU - requires XX. CH Communication RS 485 - 2wire - Modbus ASCII / RTU - requires XX. CT Intrinsically Safe TTL - Modbus ASCII / RTU - requires XX. CT Intrinsical RTU -	nal	AP	Passive 4 - 20mA output, loop powered unit.
CH	₹ Q	AU	Active 0 - 10V DC output - requires XX and PD, PF, PM or PX.
HB	uc	СВ	Communication RS 232 - Modbus ASCII / RTU - requires XX.
HB	catic	СН	Communication RS 485 - 2wire - Modbus ASCII / RTU - requires XX.
HB	unic	CI	Communication RS 485 - 4wire - Modbus ASCII / RTU - requires XX.
HB	E E	СТ	Intrinsically Safe TTL - Modbus ASCII / RTU - requires XI.
HC HSB Stainless steel 316L panel mount enclosure. HSB Stainless steel 316L panel mount enclosure. HC GRP field mount - Cable entry: no holes. HE GRP field mount - Cable entry: 2 x Ø 16mm & 1 x Ø 20mm. HF GRP field mount - Cable entry: 2 x Ø 20mm. HG GRP field mount - Cable entry: 2 x Ø 20mm. HJ GRP field mount - Cable entry: 3 x Ø 20mm. HJ GRP field mount - Cable entry: 3 x Ø 20mm. HJ GRP field mount - Cable entry: 5 x Ø 20mm. HJ GRP field mount - Cable entry: 2 x Ø 20mm. HJ GRP field mount - Cable entry: 2 x Ø 20mm. HA Aluminum field mount - Cable entry: 2 x PG9 + 1 x M20. HA Aluminum field mount - Cable entry: 2 x M6 + 1 x M20. HN Aluminum field mount - Cable entry: 2 x M6 + 1 x M20. HO Aluminum field mount - Cable entry: 2 x M20. HD Aluminum field mount - Cable entry: 2 x M20. HD Aluminum field mount - Cable entry: 3 x M20. HD Aluminum field mount - Cable entry: 4 x M20. HD Aluminum field mount - Cable entry: 5 x M12. HT Aluminum field mount - Cable entry: 1 x ½"NPT. HU Aluminum field mount - Cable entry: 1 x ½"NPT. HD Aluminum field mount - Cable entry: 2 x M20. HZ Aluminum field mount - Cable entry: 2 x M20. HBM Extended Alu. field/meter mount - Cable entry: 2 x M20. HBM Extended Alu. field/meter mount - Cable entry: 2 x M20. HBM Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x M20. HSU Stainless steel 316L	ပိ	сх	No communication.
HSB Stainless steel 316L panel mount enclosure. HD GRP field mount - Cable entry: 2 x Ø 16mm & 1 x Ø 20mm. HE GRP field mount - Cable entry: 1 x Ø 22mm (½"). HG GRP field mount - Cable entry: 2 x Ø 20mm. HH GRP field mount - Cable entry: 2 x Ø 20mm. HH GRP field mount - Cable entry: 3 x Ø 22mm (½"). HK GRP field mount - Cable entry: 3 x Ø 22mm (½"). HK GRP field mount - Cable entry: 3 x Ø 22mm (½"). HK GRP field mount - Cable entry: 3 x Ø 22mm (½"). HK Aluminum field mount - Cable entry: 2 x PG9 + 1 x M20. HL Aluminum field mount - Cable entry: 2 x Y½"NPT. HM Aluminum field mount - Cable entry: 2 x M20. HN Aluminum field mount - Cable entry: 2 x M20. HP Aluminum field mount - Cable entry: 3 x ½"NPT. HU Aluminum field mount - Cable entry: 1 x M20. HP Aluminum field mount - Cable entry: 3 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 2 x M20. HBD Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x M20. HSU Stainless steel 316L field m		НВ	Aluminum panel mount enclosure.
For Bild Mount - Cable entry: 2 x Ø 16mm & 1 x Ø 20mm. HE GRP field mount - Cable entry: 2 x Ø 22mm (½"). HG GRP field mount - Cable entry: 2 x Ø 20mm. HG GRP field mount - Cable entry: 3 x Ø 22mm (½"). HG GRP field mount - Cable entry: 3 x Ø 22mm (½"). HH GRP field mount - Cable entry: 6 x Ø 12mm. HJ GRP field mount - Cable entry: 6 x Ø 12mm. HJ GRP field mount - Flat bottom, cable entry: no holes. HA Aluminum field mount - Cable entry: 2 x PS9 + 1 x M20. HL Aluminum field mount - Cable entry: 2 x M6 + 1 x M20. HN Aluminum field mount - Cable entry: 2 x M16 + 1 x M20. HA Aluminum field mount - Cable entry: 2 x M20. HP Aluminum field mount - Cable entry: 6 x M12. HT Aluminum field mount - Cable entry: 6 x M12. HT Aluminum field mount - Cable entry: 3 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 2 x M20. HB Extended Alu. field/meter mount - Cable entry: 2 x M20. HBD Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x %"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x %"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x %"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x %"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x %"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x %"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x %"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x %"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x %"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x %"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x %"NPT. HSM Stainless steel 316L field		нс	GRP panel mount enclosure.
HE GRP field mount - Cable entry: 2 x Ø 16mm & 1 x Ø 20mm. HF GRP field mount - Cable entry: 2 x Ø 20mm. HG GRP field mount - Cable entry: 6 x Ø 12mm. HH GRP field mount - Cable entry: 6 x Ø 12mm. HJ GRP field mount - Cable entry: 3 x Ø 22mm (½"). HK GRP field mount - Flat bottom, cable entry: no holes. HA Aluminum field mount - Cable entry: 2 x PG9 + 1 x M20. HL Aluminum field mount - Cable entry: 2 x ½"NPT. HM Aluminum field mount - Cable entry: 2 x M16 + 1 x M20. HN Aluminum field mount - Cable entry: 2 x M20. HO Aluminum field mount - Cable entry: 2 x M20. HP Aluminum field mount - Cable entry: 1 x M20. HO Aluminum field mount - Cable entry: 1 x ½"NPT. HU Aluminum field mount - Cable entry: 1 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 1 x ½"NPT. HV Aluminum field mount - Cable entry: 2 x M20. HBW Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20. HBW Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. HSW Stainless steel 316L field mount - Cable entry: 3 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x M20. HSW Stainless steel 316L field mount - Cable entry: 3 x M20. HSW Stainless steel 316L field mount - Cable entry: 3 x M20. HSW Stainless steel 316L field mount - Cable entry: 3 x M30 +		HSB	Stainless steel 316L panel mount enclosure.
HF GRP field mount - Cable entry: 1 x Ø 22mm (¾"). HG GRP field mount - Cable entry: 2 x Ø 20mm. HH GRP field mount - Cable entry: 3 x Ø 22mm (¾"). HK GRP field mount - Flat bottom, cable entry: no holes. HA Aluminum field mount - Cable entry: 2 x PG9 + 1 x M20. HL Aluminum field mount - Cable entry: 2 x ½"NPT. HM Aluminum field mount - Cable entry: 2 x ½"NPT. HM Aluminum field mount - Cable entry: 1 x M20. HO Aluminum field mount - Cable entry: 2 x M6+ 1 x M20. HO Aluminum field mount - Cable entry: 1 x M20. HP Aluminum field mount - Cable entry: 3 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HU Aluminum field mount - Cable entry: 1 x M20. HZ Aluminum field mount - Cable entry: 1 x M20. HZ Aluminum field mount - Cable entry: 1 x M20. HZ Aluminum field mount - Cable entry: 1 x M20. HZ Aluminum field mount - Cable entry: 2 x M20. HZ Aluminum field mount - Cable entry: 2 x M20. HBM Extended Alu. field/meter mount - Cable entry: 2 x M20. HBM Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs - on Or or OA - requires XX and PP or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - requires XX. PM Basic power supply 8 - 30V DC. PS Additional lithium battery powered (optional) - requires XX and PD or PX.		HD	GRP field mount - Cable entry: no holes.
HG GRP field mount - Cable entry: 2 x Ø 20mm. HH GRP field mount - Cable entry: 3 x Ø 22mm (½"). HK GRP field mount - Flat bottom, cable entry: no holes. HA Aluminum field mount - Cable entry: 2 x P69 + 1 x M20. HL Aluminum field mount - Cable entry: 2 x ½"NPT. HM Aluminum field mount - Cable entry: 2 x M16 + 1 x M20. HN Aluminum field mount - Cable entry: 2 x M16 + 1 x M20. HN Aluminum field mount - Cable entry: 2 x M20. HP Aluminum field mount - Cable entry: 3 x M20. HP Aluminum field mount - Cable entry: 3 x M20. HP Aluminum field mount - Cable entry: 3 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 2 x M20. HB Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20. HBO Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20. HBO Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OT Three passive transistor outputs - requires XX and PD, PF, PM or PM. OT Three passive transistor outputs. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HE	GRP field mount - Cable entry: 2 x Ø 16mm & 1 x Ø 20mm.
HH GRP field mount - Cable entry: 6 x Ø 12mm. HJ GRP field mount - Cable entry: 3 x Ø 22mm (½"). HK GRP field mount - Flat bottom, cable entry: no holes. HA Aluminum field mount - Cable entry: 2 x PG9 + 1 x M20. HL Aluminum field mount - Cable entry: 2 x PG9 + 1 x M20. HA Aluminum field mount - Cable entry: 2 x ½"NPT. HM Aluminum field mount - Cable entry: 2 x ½"NPT. HO Aluminum field mount - Cable entry: 2 x M20. HP Aluminum field mount - Cable entry: 3 x M20. HP Aluminum field mount - Cable entry: 6 x M12. HT Aluminum field mount - Cable entry: 1 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 4 x M20. HZ Aluminum field mount - Cable entry: 2 x M16 + 1 x M20. HBD Extended Alu. field/meter mount - Cable entry: 2 x M6 + 1 x M20. HBD Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSO Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs - requires XX and PD, PF, PM or PM. OT Three passive transistor outputs. PB 8-24V AC/DC + sensor supply - requires XX. PY Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HF	GRP field mount - Cable entry: $1 \times \emptyset$ 22mm ($\frac{7}{8}$ ").
HJ GRP field mount - Cable entry: 3 x Ø 22mm (½"). HK GRP field mount - Flat bottom, cable entry: no holes. HA Aluminum field mount - Cable entry: 2 x PG9 + 1 x M2O. HL Aluminum field mount - Cable entry: 2 x ½"NPT. HM Aluminum field mount - Cable entry: 2 x M16 + 1 x M2O. HN Aluminum field mount - Cable entry: 2 x M2O. HP Aluminum field mount - Cable entry: 3 x ½"NPT. HJ Aluminum field mount - Cable entry: 6 x M12. HT Aluminum field mount - Cable entry: 8 x M2O. HP Aluminum field mount - Cable entry: 8 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HJ Aluminum field mount - Cable entry: 2 x M2O. HB Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M2O. HBO Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M2O. HBU Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M2O. HBU Extended Alu. field/meter mount - Cable entry: 2 x M2O. HBU Extended Alu. field/meter mount - Cable entry: 2 x M2O. HBU Extended Alu. field/meter mount - Cable entry: 2 x M2O. HSU Stainless steel 316L field mount - Cable entry: 2 x M2O. HSU Stainless steel 316L field mount - Cable entry: 2 x M2O. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HG	GRP field mount - Cable entry: 2 x Ø 20mm.
HK GRP field mount - Flat bottom, cable entry: no holes. HA Aluminum field mount - Cable entry: 2 x PG9 + 1 x M20. HL Aluminum field mount - Cable entry: 2 x ½"NPT. HM Aluminum field mount - Cable entry: 2 x M16 + 1 x M20. HN Aluminum field mount - Cable entry: 2 x M20. HP Aluminum field mount - Cable entry: 1 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 4 x M20. HZ Aluminum field mount - Cable entry: 2 x M16 + 1 x M20. HBM Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD. PF, PM or PX. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		НН	GRP field mount -Cable entry: 6 x Ø 12mm.
HA Aluminum field mount - Cable entry: 2 x PG9 + 1 x M2O. HL Aluminum field mount - Cable entry: 2 x ½"NPT. HM Aluminum field mount - Cable entry: 2 x M16 + 1 x M2O. HN Aluminum field mount - Cable entry: 2 x M2O. HP Aluminum field mount - Cable entry: 2 x M2O. HP Aluminum field mount - Cable entry: 3 x ½"NPT. HU Aluminum field mount - Cable entry: 1 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 2 x M2O. HZ Aluminum field mount - Cable entry: 2 x M2O. HBM Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M2O. HBO Extended Alu. field/meter mount - Cable entry: 2 x M2O. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M2O. HSO Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HJ	GRP field mount - Cable entry: $3 \times \emptyset 22mm (\frac{7}{8})$.
HL Aluminum field mount - Cable entry: 2 x ½ "NPT. HM Aluminum field mount - Cable entry: 2 x M16 + 1 x M20. HN Aluminum field mount - Cable entry: 2 x M20. HO Aluminum field mount - Cable entry: 6 x M12. HT Aluminum field mount - Cable entry: 3 x ½ "NPT. HU Aluminum field mount - Cable entry: 3 x ½ "NPT. HU Aluminum field mount - Cable entry: 3 x ½ "NPT. HV Aluminum field mount - Cable entry: 4 x M20. HZ Aluminum field mount - Cable entry: 2 x M16. HBM Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 2 x M20. HSS Stainless steel 316L field mount - Cable entry: 2 x M6 + 1 x M20. HSO Stainless steel 316L field mount - Cable entry: 3 x ½ "NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HK	GRP field mount - Flat bottom, cable entry: no holes.
HM Aluminum field mount - Cable entry: 2 x M16 + 1 x M20. HN Aluminum field mount - Cable entry: 1 x M20. HO Aluminum field mount - Cable entry: 6 x M12. HT Aluminum field mount - Cable entry: 1 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 4 x M20. HZ Aluminum field mount - Cable entry: 4 x M20. HZ Aluminum field mount - Cable entry: 9 x M20. HZ Aluminum field mount - Cable entry: 1 x M20. HZ Aluminum field mount - Cable entry: 9 x M20. HZ Aluminum field mount - Cable entry: 9 x M16 + 1 x M20. HZ Aluminum field mount - Cable entry: 9 x M16 + 1 x M20. HZ Aluminum field mount - Cable entry: 2 x M16 + 1 x M20. HZ Aluminum field mount - Cable entry: 2 x M20. HZ Aluminum field mount - Cable entry: 2 x M20. HZ Aluminum field mount - Cable entry: 2 x M20. HZ Stainless steel 316L field mount - Cable entry: 2 x M20. HZ Aluminum field mount - Cable entry: 2 x M20. HZ Aluminum field mount - Cable entry: 2 x M20. HZ Aluminum field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		НА	Aluminum field mount - Cable entry: 2 x PG9 + 1 x M20.
HP Aluminum field mount - Cable entry: 6 x M12. HT Aluminum field mount - Cable entry: 1 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 4 x M20. HZ Aluminum field mount - Cable entry: 0 holes HBM Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20. HBO Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.	es	HL	Aluminum field mount - Cable entry: $2 \times \frac{1}{2}$ "NPT.
HP Aluminum field mount - Cable entry: 6 x M12. HT Aluminum field mount - Cable entry: 1 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 4 x M20. HZ Aluminum field mount - Cable entry: 0 holes HBM Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20. HBO Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.	sur	НМ	Aluminum field mount - Cable entry: 2 x M16 + 1 x M20.
HP Aluminum field mount - Cable entry: 6 x M12. HT Aluminum field mount - Cable entry: 1 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 4 x M20. HZ Aluminum field mount - Cable entry: 9 x M16 + 1 x M20. HBM Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. Battery PB Additional lithium battery powered (optional) - requires XX and PD or PX.	<u>0</u>	HN	Aluminum field mount - Cable entry: 1 x M20.
HT Aluminum field mount - Cable entry: 1 x ½"NPT. HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 4 x M20. HZ Aluminum field mount - Cable entry: 0 x M16 + 1 x M20. HBM Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20. HBO Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.	ш	НО	Aluminum field mount - Cable entry: 2 x M20.
HU Aluminum field mount - Cable entry: 3 x ½"NPT. HV Aluminum field mount - Cable entry: 4 x M2O. HZ Aluminum field mount - Cable entry: no holes HBM Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M2O. HBO Extended Alu. field/meter mount - Cable entry: 2 x M2O. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M2O. HSO Stainless steel 316L field mount - Cable entry: 2 x M2O. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HP	Aluminum field mount - Cable entry: 6 x M12.
HV Aluminum field mount - Cable entry: 4 x M2O. HZ Aluminum field mount - Cable entry: no holes HBM Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M2O. HBO Extended Alu. field/meter mount - Cable entry: 2 x M2O. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M2O. HSO Stainless steel 316L field mount - Cable entry: 2 x M2O. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. Battery Battery PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HT	Aluminum field mount - Cable entry: $1 \times \frac{1}{2}$ "NPT.
HZ Aluminum field mount - Cable entry: no holes HBM Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20. HBO Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HU	Aluminum field mount - Cable entry: $3 \times \frac{1}{2}$ "NPT.
HBM Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20. HBO Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x ½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. Battery Battery PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HV	Aluminum field mount - Cable entry: 4 x M20.
HBO Extended Alu. field/meter mount - Cable entry: 2 x M20. HBU Extended Alu. field/meter mount - Cable entry: 3 x ½ "NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HZ	Aluminum field mount - Cable entry: no holes
HBU Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT. HSM Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		НВМ	Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20.
HSM Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M20. HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. Battery Battery Battery HSM 15 - 230V AC + sensor supply - requires XX and PD or PX.		НВО	Extended Alu. field/meter mount - Cable entry: 2 x M20.
HSO Stainless steel 316L field mount - Cable entry: 2 x M20. HSU Stainless steel 316L field mount - Cable entry: 3 x\rangle_2"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HBU	Extended Alu. field/meter mount - Cable entry: 3 x ½"NPT.
HSU Stainless steel 316L field mount - Cable entry: 3 x½"NPT. OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HSM	Stainless steel 316L field mount - Cable entry: 2 x M16 + 1 x M20.
OA Three active transistor outputs - requires XX and PD, PF, PM or PX. OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HSO	Stainless steel 316L field mount - Cable entry: 2 x M20.
OR Two mechnical relay outputs + one OT or OA - requires XX and PF or PM. OT Three passive transistor outputs. PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		HSU	Stainless steel 316L field mount - Cable entry: $3 x \frac{1}{2}$ "NPT.
PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. Battery Battery PB Additional lithium battery powered (optional) - requires XX and PD or PX.	Digital output	OA	Three active transistor outputs - requires XX and PD, PF, PM or PX.
PD 8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC. PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. Battery Battery PB Additional lithium battery powered (optional) - requires XX and PD or PX.		OR	Two mechnical relay outputs + one OT or OA - requires XX and PF or PM.
PF 24V AC/DC + sensor supply - requires XX. PM 115 - 230V AC + sensor supply - requires XX. PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		ОТ	Three passive transistor outputs.
PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.	Power	PD	8 - 24V AC/DC + sensor supply - with XI: 16 - 30V DC.
PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		PF	24V AC/DC + sensor supply - requires XX.
PX Basic power supply 8 - 30V DC. PB Additional lithium battery powered (optional) - requires XX and PD or PX.		PM	115 - 230V AC + sensor supply - requires XX.
Battery		PX	Basic power supply 8 - 30V DC.
PC Additional lithium battery powered (optional) - Intrinsically safe - requires XI, and PD or PX.	Battory	PB	Additional lithium battery powered (optional) - requires XX and PD or PX.
	Dattery	PC	Additional lithium battery powered (optional) - Intrinsically safe - requires XI, and PD or PX.
XI Intrinsically safe, according ATEX and IECEx.	Hazar- dous	XI	Intrinsically safe, according ATEX and IECEx.
XF Ex d enclosure - 3 keys according ATEX and IECEx		XF	Ex d enclosure - 3 keys according ATEX and IECEx
XX Safe area only.		XX	Safe area only.
ZB Backlight - requires XX.	Options	ZB	Backlight - requires XX.
ZF Coil input 10mVpp.		ZF	Coil input 10mVpp.
ZX No options.	ot .		

The **bold** marked text contains the standard configuration: F114-P-AP-CX-HC-OT-PX-XX-ZX.

