



Totalizer

with resettable total and non-resettable accumulated total





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, IECEx, FM and CSA 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 directly onto outdoor sensors!

Features

- Displays running total and accumulated total simultaneously.
- Large 17mm (0.67") digits for resettable total and 8mm (0.31") for non resettable accumulated total.
- Easy configuration with alphanumerical display and descriptions.
- LED backlight option.
- Selectable on-screen engineering units for volumetric or mass.
- Ability to process all types of signals: Sine wave (coil), NAMUR, NPN/PNP pulse, Reed-switch, Active pulse signals, (0)4-20mA.
- Power requirements: Input loop powered, battery powered or 8 - 30V DC, 24V AC/DC and 115 - 230V AC.
- Sensor supply: 3.2 / 8.2 / 12 / 24 V DC.
- Auto backup of settings and running totals.
- Explosion/flame proof available, according ATEX/IECEx.



Introduction

The F011 is a local indicator to display the running total and accumulated total. Total can be reset to zero by pressing the CLEAR button twice. A nonresettable accumulated total is available with eleven digits. The measuring unit to be displayed is simply selected through an alfa-numerical configuration menu. No adhesive labels have to be put on the outside of the enclosure: a weather proof and userfriendly solution! A wide selection of options further enhances the capabilities of this model, including Intrinsic Safety for hazardous area applications.

Display

The display has large 17mm (0.67") and 8mm (0.31") digits show both totals simultaneously. Both totalizers are backed-up in EEPROM memory every minute. As the FO11 has been designed for field mounted applications, a smart display update function has been incorporated. Related to the lower temperatures, the update frequency of the LCD is tuned automatically to achieve a readable display even at -40° C / -40° F.

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 avoids 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.

Hazardous area

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



Backlight

For those applications where readability during day and night is an issue, a white backlight is available. The intensity can be adjusted from the keyboard. The display is a transflective type, which means that a high contrast reading is guaranteed in full sunlight as well as during the night. This backlight option is also available Intrinsically Safe.

Power requirements

Several power supply options are available to power the FO11 and sensor. Most popular is our battery powered version with a long life lithium battery which will last up to five years. For analog sensors, a 4 - 20mA loop powered version is available as well. A real sensor supply is offered with the 24V AC/DC or 115 - 230V AC power requirement options.



All info at a glance



Easy to install



Easy to program



Know one know them all!



Reliable



User-friendly



Overview application F011

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). Flow measurement where a local totalizer function is required without flow rate or re-transmission functionality. Alternative advanced models: F012 - F013 - F014 - F016 or even more advanced F110 and higher or the D-Series DIN panel mount flow rate indicators.



Flowmeter input

Signal input

The F011 accepts most pulse and analog input signals for volumetric flow or mass flow measurement. The input signal type can be selected by the user in the configuration menu without having to adjust any sensitive mechanical dip-switches, jumpers or trimmers. The analog input is available with linear and square root calculation and even as 4 - 20mA input loop powered.

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	600Hz Threshold 1.2V	120Hz		
PNP	47KΩ pull-down	100KΩ pull-down	6kHz Threshold 1.2V	1.2kHz		
NAMUR	820Ω pull-down	-	4kHz	-		External power required
COIL LO	-	-		-	90mV _{pp}	Default sensitivity
COIL-HI					20mV _{pp}	
COIL-HI (Type ZF)	-	-	-	-	10mV _{pp}	Sensitive for interference!
COIL-HI (Type ZG)	e ZG)				5mV _{pp}	
ACTIVE 8.2V DC	3K9Ω		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



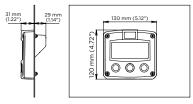
Enclosures

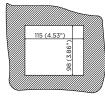
Cable entries

Various types of enclosures can be selected, all ATEX, IECEx, FM and CSA approved. THe F011 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

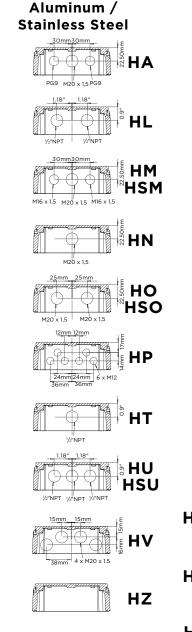


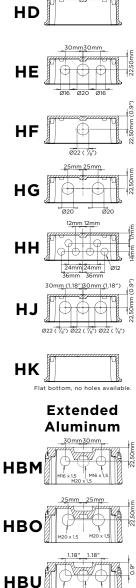


HB & HC enclosures

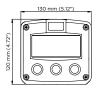
panel cut-out

GRP

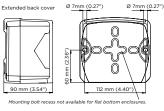




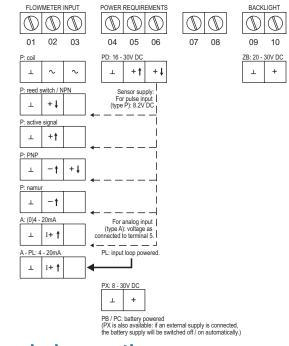
Aluminum, GRP & Stainless steel 316L field mount enclosures





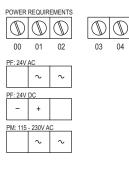


Terminal connections PB/PC - PD -PL - PX



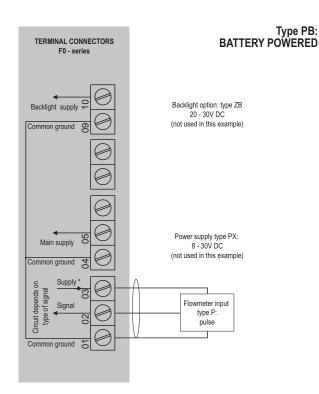
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Terminal connections PF - PM



FLOW	METER	INPUT		
\square	\mathbb{O}	\bigcirc		
05	06	07		
P: coil				
1	ح	\sim		
P: reed s	witch / N	PN		
1	+↓			
P: PNP				
1	- †	+↓		
P: namu	r			
1	- †	+↓		
P: active	P: active signal			
Ŧ	+1			
A: (0)4 -	20mA			
Ť	I + ↑	+↓		

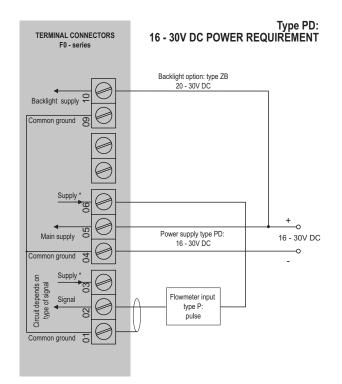
Configuration example F011-P-PB-(PX)-XX-(ZB)



* Sensor supply voltage for pulse flowmeter type P: Terminal 3: 1.2 - 3.2V DC.

* Sensor supply voltage for analog flowmeter type A: Terminal 3: not available.

Configuration example F011-P-PD-XX-ZB

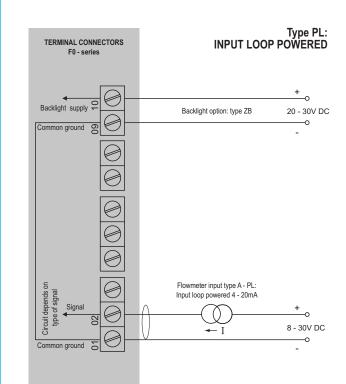


* Sensor supply voltage for pulse flowmeter type P: Terminal 3: 1.2 - 3.2V DC. Terminal 6 with type PD: 8.2V DC.

* Sensor supply voltage for analog flowmeter type A: Terminal 3: not available.

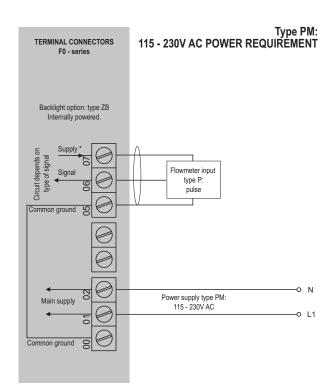
Terminal 6 with type PD: voltage as connected to terminal 5 (internally linked).

Configuration example F011-A-PL-XX-ZB



Sensor supply: sensor is externally powered

Configuration example F011-P-PM-XX-ZB



* Sensor supply voltage for pulse flowmeter type P: Terminal 7: 1.2 - 3.2 - 8.2 - 12 - 24V DC.

* Sensor supply voltage for analog flowmeter type A: Terminal 7: 8.2 - 12 - 24V DC.

Your success counts

Hazardous area applications

The F011-XI has been certified according to ATEX and IECEx by DEKRA and according CSA c-us and FM for use in Intrinsically Safe applications with an ambient temperature of -40°C to +70°C (-40°F to +158°F). For equipment category 1 D (EPL Da), -40°C to +50°C (-40°F to +122°F).

- The ATEX markings for gas and dust applications are:
 Gas: II 1 G Ex ia 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 T4 Ga
 - Dust: Ex ia IIIC T₂₀₀ 100 °C Da.
- The CSA c-us markings are:

IS Class I/II/III, Division 1, Groups A to G T4. Class 1 Zone 0 AEx ia IIC T4 Ga. Ex ia IIC T4 Ga.

• The FM markings are:

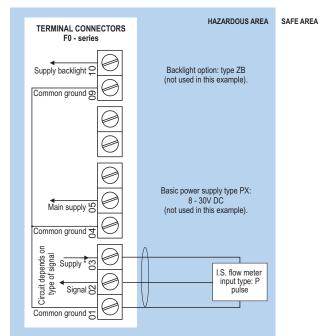
IS, Class I, II, III, Division 1, Groups A to G T4. Class I, Zone O, AEx ia IIC T4

It is allowed to connect up to three I.S. power supplies to power the unit, sensor and backlight. Consult the certificate for the maximum input and output values of the circuits. The F011-PD-XI offers a 8.2V DC sensor supply to power e.g. a Namur sensor or the input voltage to power an analog sensor. An ATEX/IECEx approved flame proof Ex d enclosure is available as well. Please contact your supplier for further details.

Certificate of conformity KEMA 05ATEX1168 X • IECEx KEM 08.0006X

• CSA.08.2059461 IECEx Certificate CERTIFICATE IEC IECEx of Conformity **DEKRA** Rolf Cardinan Statesy Innan No. 1 (2014) 15:30 The equipment and any acc Pushed BV Videorg 23 S4M 82 Gigls The Natherland OPDM Certification B.V., worked tests named EOH in accordance with Anten 5 at the Council Descine Problem 4. Council Antenna Anten 4. Council Antenna Ante ... Date: This BC Free Exumination Carillicate nation only to the bester, examination for the Countries WHEE. Further requirements of the detect week of the magnetic the magnetic the magnetic state. These are not severel by the cetificate. Ex III BEERSTON Service Service artificate is issued on 31 October 2014 and, on far lat-or of personalphor of conference, of one of) the manufacture 6 FM Approval: CERTIFICATE OF CONFORMITY Certificate of Compliance Fieldus F0 Sector Project: Voltaweg 23 5466 AZ Veghel Netherlands r the CSA Mark sh This certificate relates to the design, examination and teeling of the products specified herein. The FA approvals surveillance such program has further determined that the manufacturing processes and quality approvals.

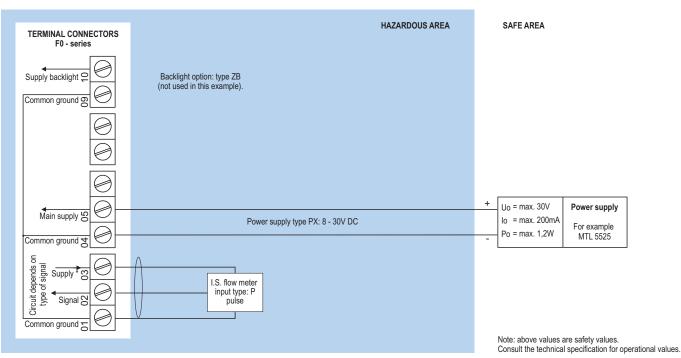
Configuration example IIA - IIIB and IIC F011-P-PC-(PX)-XI-(ZB) - Battery powered unit



* Sensor supply voltage for pulse flow meter type P : Terminal 3: 1.2 - 3.2V DC. Please note: type PX may be used in combination with the battery (type PC). PX will power the unit; the battery will be disabled automatically till power is disconnected.

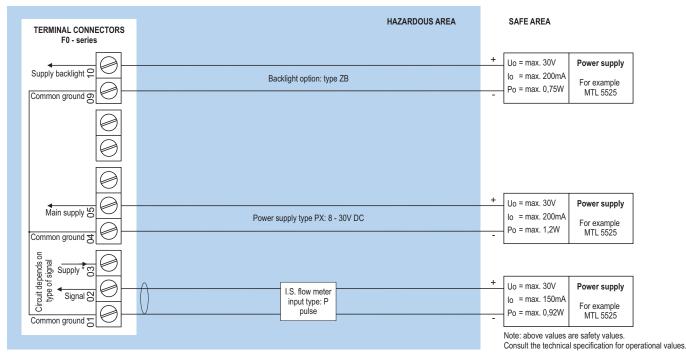


Configuration example IIA - IIB and IIC - F011-P-PX-XI-(ZB) - Basic power requirement 8 - 30V DC



* Sensor supply voltage for pulse type P: Terminal 3: 1.2V - 3.2V DC. Please note: type PX may be used in combination with the battery (type PC). PX will power the unit; the battery will be disabled automatically till power is disconnected.



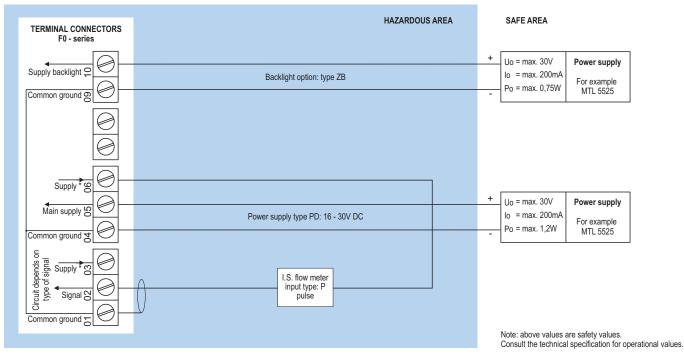


* Sensor supply voltage for pulse type P: Terminal 3: 1.2V - 3.2V DC.

Please note: type PX may be used in combination with the battery (type PC). PX will power the unit; the battery will be disabled automatically till power is disconnected.

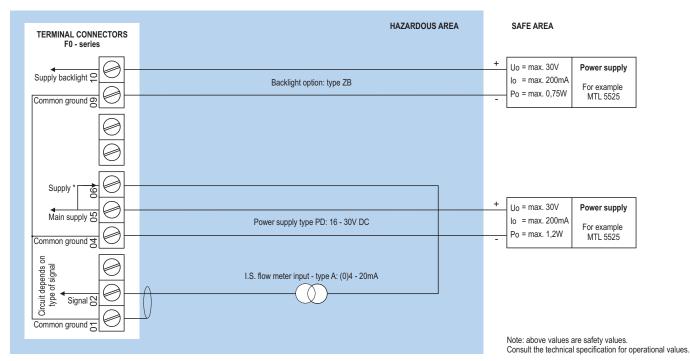


Configuration example IIA - IIB and IIC - F011-P-PD-XI-ZB - Power requirement 16 - 30V DC



* Sensor supply voltage for pulse type P: Terminal 3: 1.2V - 3.2V DC. Terminal 6: 8.2V DC. Please note: type PD may be used in combination with the battery (type PC). PD will power the unit; the battery will be disabled automatically till power is disconnected.

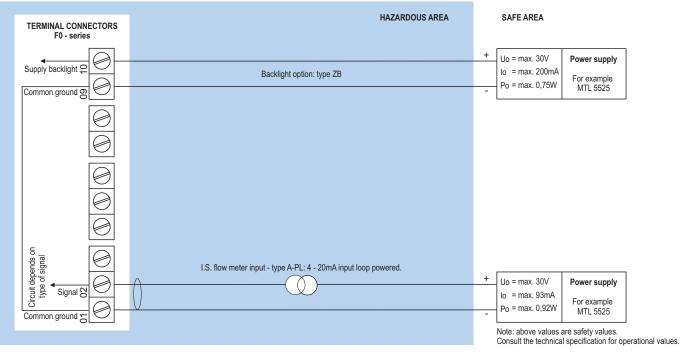
Configuration example IIA - IIB and IIC - F011-A-PD-XI-ZB - Power requirement 16 - 30V DC



* Sensor supply voltage for analog flow meter type A: Terminal 6: as input voltage terminal 5 (internally linked). Please note: type PD may be used in combination with the battery (type PC). PD will power the unit; the battery will be disabled automatically till power is disconnected.

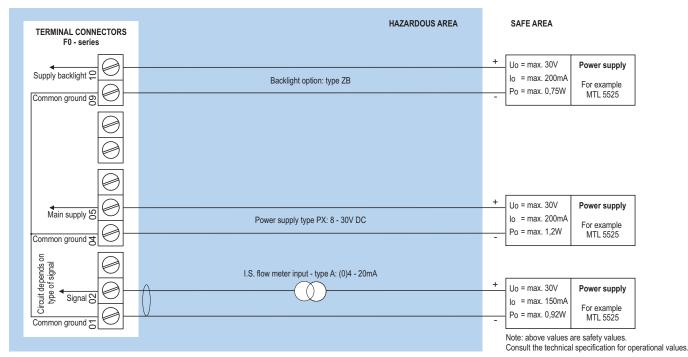


Configuration example IIA - IIB and IIC - F011-A-PL-XI-ZB - Input loop powered



Sensor supply is not available: unit is input loop powered (type PL). Please note: type PL may be used in combination with the battery (type PC). PL will power the unit; the battery will be disabled automatically till power is disconnected.

Configuration example IIA - IIB and IIC - F011-A-PX-XI-ZB - Basic power requirement 8 - 30V DC



* Sensor supply voltage for analog flow meter type A / U: not available in this example. Please note: type PX may be used in combination with the battery (type PC). PX will power the unit; the battery will be disabled automatically till power is disconnected.



Technical specifications F011

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.
	Intensitiy can be adjusted in the configuration
	menu. Good readings in full sunlight and
	darkness. Also available Intrinsically Safe.

Ambient temperature

Safe areas	-40°C to +80°C (-40°F to +176°F).
EPL Ga / 1G	-40°C to +70°C (-40°F to +158°F).
EPL Da / 1D	-40°C to +50°C (-40°F to +122°F).
	max. dust layer thickness: 200mm.
EPL Db / 2D	-40°C to +70°C (-40°F to +158°F).
	max. dust layer thickness: 5mm.

Power requirements

Туре РВ	Long life Lithium battery - life-time depends
	upon settings and configuration - up to 5 years.
	(requires PD, PL or PX)
Туре РС	Intrinsically Safe long life lithium battery
	life-time depends upon settings and
	configuration - up to 5 years.
	(requires XI and PD, PL or PX)
Type PD	16 - 30V DC. power consumption max. 1W.
Type PF	24V AC / DC ± 10%. Power consumption max. 15W.
Type PL	Input loop powered from sensor signal 4 - 20mA
	(type "A").
Туре РМ	115 - 230V AC ± 10%. Power consumption max. 15W.
Туре РХ	8 - 30V DC. Power consumption max. 0.3W.
Type ZB	20 - 30V DC ± 10%. Power consumption max. 1W.
	With type PF / PM: internally powered.
Note PB/PF/PM	Not available Intrinsically Safe.
Note PF/PM	The total consumption of the sensor and
	backlight type ZB may not exceed 400mA @
	24V DC.
Note XI	For Intrinsically Safe applications, consult the
	safety values in the certificate.

Sensor excitation

Type PB/PC/PX	3.2V 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	For pulse signals: 1.2 / 3.2 / 8.2V DC - max.
	5mA@8.2V DC. For analog signals, the sensor
	supply voltage is according to the power supply
	voltage connected.
Type PF / PM	With pulse input: 1.2 / 3.2 / 8.2 / 12 / 24V DC -
	max. 400mA @ 24V DC. With analog input: 8.2 /
	12 / 24V DC - max. 400mA @ 24V DC.

Terminal connections

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

Data protection

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

Directives & Standards

EMC	Directive 2014/30/EU, FCC 47 CFR part 15.
Low voltage	Directive 2014/35/EU
RoHS	Directive 2011/65/EU
ATEX / IECEx	Directive 2014/34/EU, IEC 600079-0,
	IEC 60079-11.
FM	FM Class No. 3600, FM Class No. 3610.
CSA	CSA 22.2 No. 157-92.
IP & NEMA	EN 60529 & NEMA 250.

Intrinsically Safe (Type XI)

Gas: II 1 G Ex ia IIC T4 Ga.
Dust: II 1 D Ex ia IIIC T ₂₀₀ 100 °C Da.
Gas: Ex ia IIC T4 Ga.
Dust: Ex ia IIIC T ₂₀₀ 100 °C Da.
IS Class I/II/III, Division 1, Groups A to G T4.
Class 1 Zone 0 AEx ia IIC T4 Ga.
IS, Class I, II, III, Division 1, Groups A to G T4.
Class I, Zone O, AEx ia IIC T4

Explosion proof (Type XF)

Dust: II 2 D Ex tb IIIC T80°C.
IP66
Dimensions of enclosure: 300 x 250 x 200mm
(11.8" x 9.9" x 7.9") L x H x D.
Appr. 15kg.



Technical specifications F011

Enclosure

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

Panel mount enclosures

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

GRP wall / field mount enclosures

General	GRP wall/field mount enclosure IP67 / NEMA
	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.
Туре НЕ	Cable entry: 2 x Ø 16mm and 1 x Ø 20mm.
Type HF	Cable entry: 1 x Ø 22mm (7/8").
Type HG	Cable entry: 2 x Ø 20mm.
Туре НН	Cable entry: 6 x Ø 12mm.
Type HJ	Cable entry: 3 x Ø 22mm (7⁄8").
Туре НК	Flat bottom, cable entry: no holes.

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.
Туре НР	Cable entry: 6 x M12.
Туре НТ	Cable entry: 1 x ½" 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

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.

Туре Р	Coil / sine wave (HI: 20mVpp or LO: 90mVpp -
	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 signa
	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.
Option ZG	coil sensitivity 5mVpp.
Туре А	(0)4 - 20mA. Analog input signal can be scaled
	to any desired range within 0 - 20mA.
Туре U	0 - 10V DC. Contact factory.
Accuracy	Resolution: 16 bit. Error < 0.01mA / \pm 0.05% FS.
	Low level cut-off programmable.
Span	0.0010 - 999,999 with variable decimal position.
Update time	Four times per second.
Voltage drop	Type A: max. 1V DC @ 20mA.
Voltage drop	Type A - PL (loop powered): max. 2.6V DC $@$
	20mA.
Relationship	Linear and square root calculation.
Note A	For signal type A: external power to sensor is
	required; e.g. type PD.

Operator functions

Displayed info	•	Running	total.	
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- Accumulated total.
- Total can be reset to zero by pressing the CLEAR-key twice.

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.

Accumulated total

Digits	11 digits.
Units / Decimals	According to selection for total.
Note	Can not be reset to zero.

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.



Ordering information F011

		Description		
Model	F011	Totalizer with resettable total and non-resettable accumulated total.		
Innut	А	(0)4 - 20mA input.		
Input	Р	Pulse input, e.g., coil, npn, pnp, namur, reed-switch.		
	HB	Aluminum panel mount enclosure.		
	HC	GRP panel mount enclosure.		
	HSB	Stainless steel 316L panel mount enclosure.		
	HD	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: $1 \times \emptyset$ 22mm ($\frac{7}{8}$ ").		
	HG	GRP field mount - Cable entry: 2 x Ø 20mm.		
	НН	GRP field mount - Cable entry: 6 x Ø 12mm.		
	HJ	GRP field mount - Cable entry: 3 x Ø 22mm ($\frac{7}{8}$ ").		
	НK	GRP field mount, flat bottom - Cable entry: no holes.		
	HA	Aluminum field mount - Cable entry: 2 x PG9 + 1 x M20.		
SS	HL	Aluminum field mount - Cable entry: 2 x ½"NPT.		
sure	HM	Aluminum field mount - Cable entry: 2 x M16 + 1 x M20.		
Enclosures	HN	Aluminum field mount - Cable entry: 1 x M20.		
ш	НО	Aluminum field mount - Cable entry: 2 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.		
	ΗV	Aluminum field mount - Cable entry: 4 x M20.		
	HZ	Aluminum field mount - Cable entry: no holes.		
	HBM	Extended Alu. field/meter mount - Cable entry: 2 x M16 + 1 x M20.		
	НВО	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 $\frac{1}{2}$ "NPT.		
	PD	16 - 30 V DC + sensor supply.		
ž	PF	24V AC/DC + sensor supply - requires XX.		
Power	PL	Input loop powered from sensor signal type "A" .		
<u>م</u>	PM	115 - 230V AC + sensor supply - requires XX.		
	PX	Basic power supply 8 - 30V DC.		
Bat- tery	PB	Additional lithium battery powered (opt.) - requires XX and PD, PL or PX.		
te Bi	PC	Additional lithium battery powered (opt.) - Intrins. safe - requires XI and PD, PL or PX.		
<u>ل</u> م_	XI	Intrinsically safe, according ATEX, IECEx, CSA c-us and FM.		
Hazar- dous	XF	Ex d enclosure - 3 keys according ATEX and IECEx.		
I	XX	Safe area only, according CE / UKCA.		
ر س	ZB	Backlight.		
Options	ZF	Coil input 10mVpp.		
Opt	ZG	Coil input 5mVpp.		
	ZX	No options.		
The bold	he bold marked text contains the standard configuration: F011-P-HC-PX-XX-ZX.			

The **bold** marked text contains the standard configuration: F011-P-HC-PX-XX-ZX.

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