

# FU210-28 Fast Signal Converter



**The UKF FU-210 is a** high resolution, fast response signal converter is specifically for use with the VSE Gear and Helical Screw flowmeters (VS, RS, EF & VHM). With up to 3.2 million Pulses per Litre and output frequencies of over 100kHz these meters take a lot of keeping up with.

## FEATURES /BENEFITS

- Programmable via our Easyloader software
- Quadrature input with direction
- Fast response time (1mS for frequencies over 2kHz)
- 16 bit DtoA
- 25 point linearisation
- Regulated Sensor supply
- Analogue output (+/- 0-10V or 0(4)-20 mA)
- 5 control inputs and 6 control outputs
- DIN rail mount

## Technical Data

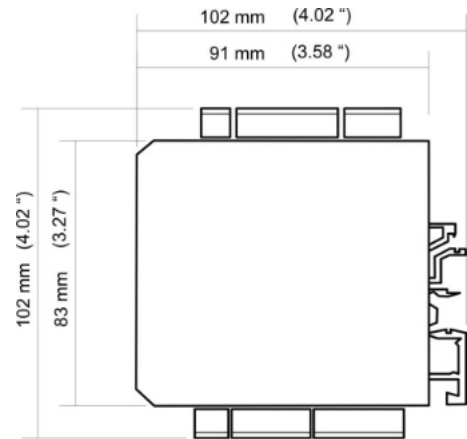
<b>Power Supply</b>	Input Voltage:	18-30 Vdc
	Protection Circuit:	Reverse Polarity Protected
	Current Draw:	Approx 50 mA
<b>Sensor Supply</b>	Regulated	5V & 24V 250mA
<b>Sensor Inputs</b>	Input Types:	2x PNP, NPN
<b>Control Inputs</b>	Number & Format:	5x HTL or PNP
<b>Analogue output</b>	Configuration:	+/- 0-10V or 0(4)-20 mA
	Resolution:	16 Bit
	Accuracy:	+/- 0.1%
<b>Control Outputs</b>	Number:	6
	Voltage & Load:	5-30 Vdc, Max 200 mA
<b>Serial Interface</b>	Format:	RS232
	Baud Rate:	9600, 19200 or 38400
<b>Housing</b>	Mounting	EN60715 35mm DIN rail
	Width	23mm
<b>Ambient Temperature</b>	Operation:	-20 to +60oC
	Storage:	-25 to +75oC
<b>Conformity and Standards</b>	EMC 2014/30/EU:	EN61326-1
		EN55011/CISPR11 Class A
	RoHS 2015/863:	EN IEC63000

The FU210-28 converter processes the speed information from the output signals of the VSE flow meters. The device can convert the frequency of the HTL signals into a freely scalable analogue measurement variable (current/voltage) with almost no delay. With an analogue resolution of 16 bit these converted signals are then available for further data processing.

The dual input can be configured for quadrature to give direction from a single meter or two flowmeter can be connected to give an output of ratio, deviation, A+B or A-B.

To increase accuracy a linearisation with up to 24 control points can be programmed.

Programming couldn't be easier via RS232/USB and our bespoke EASYLOADER software



Dimensions



## Flowmeter Connections Diagram for FU210

