

# FLOWCERT

## Technical Specifications:

The FlowCERT open channel flow meter provides comprehensive flow monitoring with data logging and control functions for a complete range of flumes and weirs. It is compatible with a range of sensors in order to create a flow metering system to suit your application.



### PHYSICAL

<b>Mounting Option:</b>	<b>Standard Wall Mount:</b>
<b>Controller Body Dimensions:</b>	235 mm x 184 mm x 120 mm (9.3 in x 7.2 in x 4.7 in)
<b>Weight:</b>	Nominal 1 kg (2.2 lb)
<b>Enclosure Material/Description:</b>	Polycarbonate, flame resistant to UL94-5V
<b>Cable Entry Detail:</b>	10 cable entry knock outs, 5 x M20, 1 x M16 underside, x 18 mm (0.7 in) dia (PG11) at rear
<b>Transducer Cable Extensions:</b>	2-core screened
<b>Maximum Separation:</b>	Up to 1,000 m (3,280 ft)

### ENVIRONMENTAL

<b>IP Rating:</b>	IP65 / NEMA 4X
<b>Max. &amp; Min. Temperature (Electronics):</b>	-20 °C to +50 °C (-4 °F to +120 °F)
<b>Flammable Atmosphere Approval:</b>	For installation in non-flammable area only. Most compatible transducers suitable for flammable atmospheres. See sensor / transducer datasheet or brochure.
<b>CE Approval:</b>	Listed in the Certificate of Conformity within the manual

### PERFORMANCE

<b>Accuracy / Repeatability:</b>	Dependent on application and sensor used. See sensor specification.
<b>Resolution:</b>	Dependent on application and sensor used. See sensor specification.
<b>Min. &amp; Max. Range:</b>	0 mm to 15 m (0 in to 49.2 ft). Dependent on the sensor used.
<b>Echo Processing:</b>	DATEM (Digital Adaptive Tracking of Echo Movement)
<b>Rate Response:</b>	Fully Adjustable

### OUTPUTS

<b>Analog Outputs:</b>	2 x isolated (floating) output (to 150 V) of 4-20mA or 0-20mA into 500 Ω (user programmable and adjustable) 1 µa resolution
<b>Digital Output:</b>	Full Duplex RS232
<b>Volt Free Contacts, Number, &amp; Rating:</b>	5 form "C" (SPDT) rated at 5A at 115 V / 240 V AC
<b>Display:</b>	6 digits plus 12 character text, plus bar graph with direction indicators, remote communicator identifier, and program / run / test mode indicators

## INPUTS

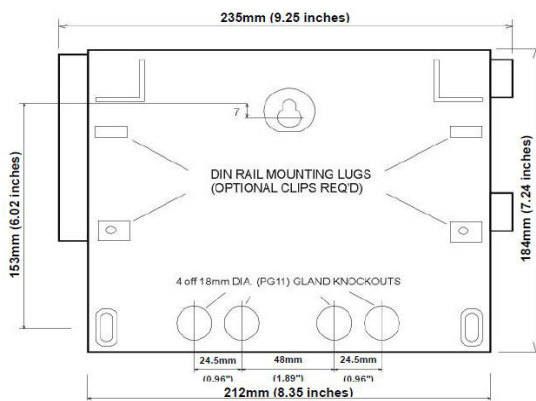
<b>Analog Inputs:</b>	Isolated (floating) input (to 150 V) of 4-20mA or 0-20mA into 500 Ω (user programmable and adjustable) 1 μa resolution
<b>Velocity Input:</b>	Via RS485 digital communications interface

## PROGRAMMING

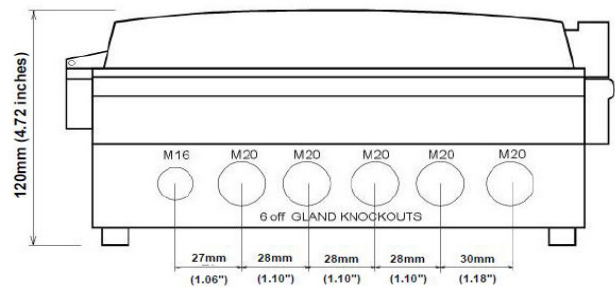
<b>Onboard Programming:</b>	By integral keypad
<b>PC Programming:</b>	Via RS232
<b>Programming Security:</b>	Via passcode (user selectable and adjustable)
<b>Programmed Data Integrity:</b>	Via non-volatile RAM, plus backup

## SUPPLY

<b>Power Supply:</b>	115 V AC +5% / -10% 50/60 Hz, 230 V AC +5% / -10% 50/60 Hz, 22-28 V DC, 10 W maximum power (typically 6 W)
<b>Fuses:</b>	100mA at 230 V AC, 200mA at 115 V AC



FlowCERT Enclosure Drawing



FlowCERT Cable Entry Drawing



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