

# FPOD-RS-10-OC-I-HART(FIELDBUS)-EXD

Hazardous Area approved Instrument with Flow rate/Accumulated flow display and linearisation.	
Instrument: F-Pod	The head or remote mounted F-Pod instrument provides local display indication of flow rate and total with either a scaled 4-20 mA output with HART, MODBUS or Fieldbus protocol on a three or four wire 24 Vdc powered system (3/4" NPT connection). In addition there are two flow alarm transistor relays. A transistor frequency output is optional.
Power	12 to 40 Vdc
Standard Flow Meter Input: RS	Reed Switch
Linearisation: 10, (no. of points)	Flow meter signal input, 10 points as standard, optional 20 or 99 points of linear interpolation Organised as Frequency versus Flow rate.
Input Frequency Range	1 to 4000 Hertz (Low frequency range - 0.00125 Hz). Minimum is 1 pulse per 800 seconds.
Zero Cut-off	Programmable from 1 to 800 seconds
Scaled Pulse: OC (option),	Linearised NPN Open Collector; The output will be a scaled pulse. Impedance: < 2.2 kOhms
Analogue: I (std) zero offset < 10 µA	4-20 mA, linearised, scaled for flow rate (not available with Fieldbus)
	H1: Isolated passive loop-powered 4-20 mA. NB requires separate supply from Display module (optionally can be linked to display power supply effectively creating 3-wire Active output with common 0 V return)
	H2: Active 4-20mA with return common to display 0 V.
	No HART: Active 4-20mA with common 0 V return
Flow alarm signal (std)	Two flow alarm outputs – (optional single dual alarm & pulse output, FS1)
Communication MODBUS RS485 MB2 HART H1, H2 or FOUNDATION FIELDBUS FF1, FF2	MB2: 2 wire, RS485 interface, two way communication* 4-20 mA or H1 option available
	H1: 2 wire, readable output, isolated, loop-powered (optionally isolated) powered from display –
	H2: 2 wire, two way communication (using FINT HART technology) NB output common to display 0
	FF1: 2 wire, readable output, no 4-20 mA output
	FF2: 2 wire, two way communication (using FINT Fieldbus technology), no 4-20mA*
	*Limited number of parameters available for configuration/adjustment by user
Environment	Enclosure Rating: -20 to +55°C Storage: -55 to + 125 °C Humidity: 0 to 85 % RH non-condensing
Enclosure: EXD	The instrument is housed in an IPW66 EExd enclosure certified by ATEX/INMETRO Brazil to Ex d [ia] IIC T6/T5 IP66 CESI 03 ATEX 174 or UL Class 1, Div 1, Groups B,C & D. Stainless steel enclosure option.
Dimensions	150mm x 150mm x 130mm Head or remote mounted EExd Enclosure with 90mm window. UL enclosure is 156mm x 178mm x 178mm with 100mm window. Stainless steel enclosure is 170mm x 170mm x 135mm approx with 100mm window
Electrical Connections	Single 3/4" NPT female thread – No gland or cabling supplied, optional extra thread
CE Approval	EN50014, EN50018, EN50020, EN50281, EN50081-1, EN50082-1, EN61010
Painting:	The flow meter body and enclosure can be painted in accordance with customer specification.
Petrobras Specifics:	These products can conform to Petrobras specifications: -I-ET-3000.00-1200-800-PCI-001 Instruments spec & -I-ET-3010.64-1300-140-PPC-001 Painting procedure. To date this product has been supplied to P47, P51, P52, P53, P54 and P56.

## Documentation:

Operating & Maintenance Manual	LM0333 with Quick Start Info on LM0548
Installation Drawing	On VFF Rotary Piston Positive Displacement Flowmeter: Flanged C5826; Threaded C5830 else C6007

## Instrument Specification Sheet



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