

PipeMonit® Swarm®
– Real-time erosion and
corrosion monitoring

FDL Ex – Field Data Logger Ex



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PRODUCT SPECIFICATIONS

TECHNICAL DATA

UT channels	32
Operating temperature	-20 to +50 °C [-4 to +122 °F]
Repeatability (standard deviation)	2.5 µm [0.1 mils]
Absolute accuracy	0.1 mm [4 mils]
Non-intrusive	Yes
Dimensions	Small: 389x195 mm, Large: 380x570x270 mm
Weight	Small: 29 kg, Large: 65 kg
Cable length (RS485)	< 500 m between FDL and Swarm
Material	316SS
Ingress protection	IP66
Ex rating	Ex II 2 G, Ex d e [ib] IIC T6

ELECTRICAL DATA

Power supply	9-36 VDC or 110/240 VAC or internally battery pack
Typical power consumption	<9 W
Communication options	RS485, Bluetooth, GSM, Wifi, Ethernet, fiber
PipeMonit unit compatibility	Controller Ex, Portable Data Collector, Swarm®

SUMMARY

The PipeMonit® Field Data Logger Ex - FDL Ex - is hard wired (RS 485) to the Swarm® using a two pair IS instrumentation cable. In semi-automated mode the FDL Ex performs daily logging of the Swarm® and stores the data locally. With one reading a day the storage capacity will be 6 months for a 24 sensor Swarm® unit.

In fully automated mode the FDL Ex performs daily readings of the Swarm® and communicates the data online and real-time over Ethernet, WiFi, GSM or RS 485 RTU. The FDL Ex is powered by battery or via hard wire 12/24 VDC or 110/230 VAC. Maximum total cable length between the FDL Ex and the Swarm® is 500 meters.