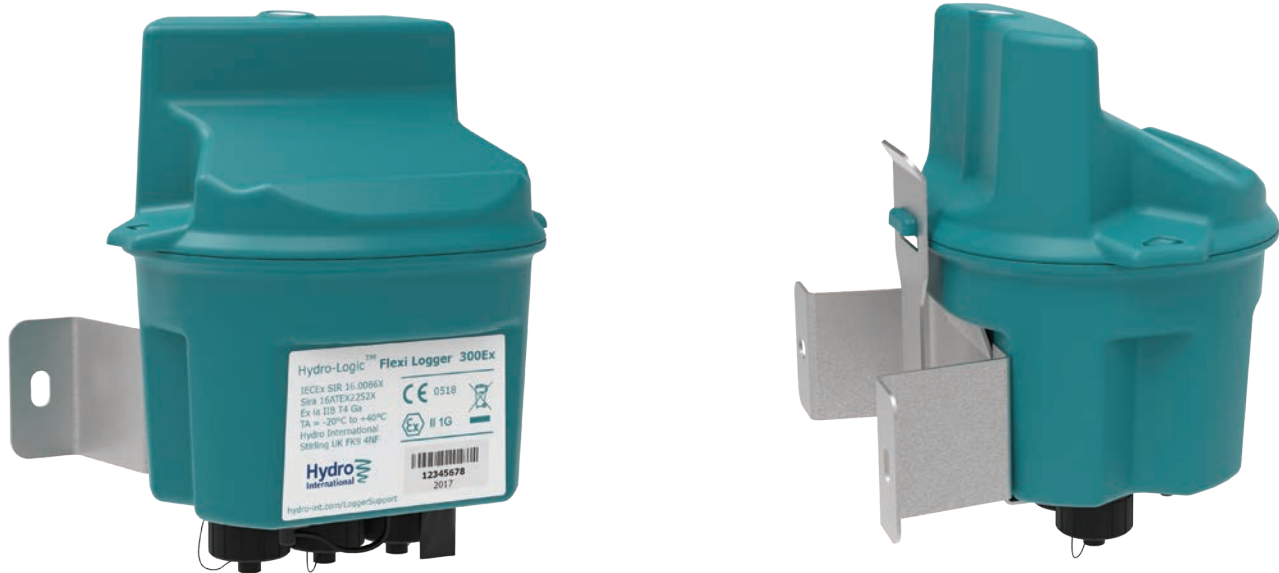


The 300Ex is ATEX certified and so is ideal for installation in chambers or tanks where the atmosphere may be explosive.



Key Features

- ATEX and IECEX compliant (to Zone 0).
- GSM, GPRS or 3G networks.
- 3 sensor connectors suitable for field wiring.
- Remote monitoring of up to 3 HART or float switch sensors and one 4-20mA input.
- Up to 8 logged channels total, including derived channels.
- 18V sensor power supply.
- Long term secure data retention.
- Remote configuration.
- Intelligent alarms, 4 per channel.
- User-replaceable SIM card for mobile data modem.
- User-replaceable battery 96Ah.
- Battery voltage and average supply current remote monitoring.
- Integral venting for gauge pressure sensors.
- Simple and quick to install.
- Connects to Timeview or (optional) DNP3 Masters.
- IP68 enclosure is submersible to 1.2 meters for 2 days.

Technical Data

Sensor Inputs	4-20mA Input	<ul style="list-style-type: none"> 16 bit resolution. 0.1% accuracy. 1 channel.
	HART Inputs	<ul style="list-style-type: none"> 3 channels total.
	Digital Inputs	<ul style="list-style-type: none"> 3 channels total. 2s timing resolution. On-off mode for float switch. 10K internal pull-up.
Sensor Power Supply	Power Output	<ul style="list-style-type: none"> Switched 18V. 250 Ohm series resistance. 62mA fuse (factory replaceable, ATEX requirement). Configurable warm-up.
Data Storage	Storage Capacity	<ul style="list-style-type: none"> 29,768 16-bit readings total for up to 8 channels.
	Storage Intervals	<ul style="list-style-type: none"> 1m, 2m, 5m, 10m, 15m, 30m, 1h, 2h, 3h, 4h, 6h, 8h, 12h (10s and 30s available for testing) Storage interval for each channel can be set independently. Data recorded at cardinal points.
Communications	Transport	<ul style="list-style-type: none"> Internal 3G/GPRS mobile data modem. Local opto-isolated serial connection.
	Protocols	<ul style="list-style-type: none"> Modbus ASCII. DNP3 (support contract required).
Connectors and Switches		<ul style="list-style-type: none"> 3 sensor connector plugs with 4 screw terminals. 1 local comms connector. 1 sensor vent with GORE® protective patch. 1 external mobile data antenna with SMA socket. User-accessible full-size SIM holder. Internal dial-out button. Externally-accessible dial-out magnetic reed switch.
Dimensions (mm)		W 169 D 145 L 174 (204 with connectors).
Construction		<ul style="list-style-type: none"> Polycarbonate enclosure. O-ring seals on all external mating surfaces. Stainless steel bracket for wall mounting.
Protection Notes		<ul style="list-style-type: none"> ATEX and IECEx Zone 0 IECEX Certificate of Conformity - IECEx SIR16.0086X. SIRA 16ATEX2252X.
		<p>IP68: will withstand 1.2m immersion for 48 hours without significant ingress</p> <ol style="list-style-type: none"> All connectors must be tightened or have sealing caps fitted Data communications may not function when immersed. Gauge-pressure based level sensors are not accurate when logger enclosure is submerged.
Operating Limits		<ul style="list-style-type: none"> -20 to +40°C (ATEX operating limits), 0 - 100 % Relative Humidity (RH)

Supported Sensors

Application	Category	Manufacturer and Model	Recommended by Hydro*
Level	Contact	Impress LMK 307	✓
		Float switches	
	Non-contact	Pulsar dBI HART 3/6/10/15	✓
Flow / Velocity	Non-contact	Pulsar Microflow-i	✓

* All listed sensors are supported, but those marked as recommended are the most compatible with our loggers and the Harvest configuration software.