



360 SERIES 2 WIRE HYDROSTATIC LEVEL TRANSMITTER



- **Submersible construction**
- **EEXia IIC T5 certified option**
- **Complies with RFI / EMC Standards**
- **Fully Welded Construction**
- **Superior Low Range Sensitivity / Accuracy**
- **Unrivalled Overload Tolerance**
- **Applications in oils & chemicals**

The 360 series uses the established measurement principle of pressure sensitive diaphragm and LVDT. Our unparalleled experience in the use of this technology over many thousands of applications results in a transmitter capable of performing accurately and reliably in the most demanding and arduous duties. Diaphragms are provided in a choice of corrosion resistant alloys and are offered in a number of "nominal" ranges; each engineered for optimum performance on its measurement span. Diaphragm travel is limited by mechanical design, providing unmatched tolerance to high overload and shock conditions.

Production employs TIG fusion technology and Mass Spectrometry analysis to ensure complete integrity of all welded joints. A process of thermal 'ageing' is used for stress relief and to ensure long-term stability in service.

Submersible construction is standard and the sensor may be free standing, suspended, clamped or pole mounting within the vessel. For external mounting, any standard flange or thread may be specified.

Where the application demands, automatic compensation for both process and ambient temperature fluctuations can be built in.

For enhanced reliability and stability, all active electronics are remotely sited in a weatherproof enclosure, which, for ease of adjustment, contains all calibration controls.

This electronics module meets current IEC standards for RFI/EMC immunity, and is available certified I.S. for use in hazardous zones.

STANDARD SPECIFICATIONS			
Calibrated Spans:	From 300mm to 32mH ₂ O	Sensor cable:	Heavy duty TPE vented
Range adjustment:	30 to 100% of nominal diaphragm range	Electronics housing:	IP65 GRP (NEMA 4) with internal RFI screen (IP67 optional)
Zero adjustment:	+/- 10% of span	Sensor operating temp.:	-25 to +95°C (optional -80/+150°C)
Overload:	Minimum 5 x nominal range	Electronics operating temp.:	-40 to +55°C
Output signal:	4 to 20 mA dc 2 wire	Electronics min survival:	-50°C
Power requirement:	12 to 30Vdc (loop powered)	Temperature effect:	Less than 0.05% / °C range and zero (0.02% / °C optional)
Maximum output load:	1000 ohms @ 30V	Accuracy:	Better than 0.25% FRO
Sensor body:	316L st stl	Diaphragm:	Hastelloy C276 standard

Typical Model Code 360 / F3 / I / 8D / C4 / 0-10m Wg / E / BGS

360 Hydrostatic sensor with 3 metres of cable and 4 to 20mA Amplifier

- F1 Basic submersible sensor
- F2 DN25 PN16 flange mounting
- F3 Tank fixing clamp
- F4 Pole adaptor fitting threaded 1/2" BSP female
- F5 Threaded process connection 1/2" BSP taper male
- F6 1" ANSI 150lb flange to BS1560
- F7 Threaded process connection 1/2" NPT male
- F8 Brass running nut connection 3/4" BSP female
- F9 Free Standing
- F10 Free standing with pole adaptor fitting 1/2" BSP
- F11T Hygienic 2" IDF
- F12T Hygienic 2" RJT
- F13T Hygienic 2" triclover
- F14T Hygienic 2" SMS
- F15 Welded pole assembly (specify overall length)
- F16 Brass running nut connection 3/4" BSP female with NRVU plunger
- F17 DN40 PN16 flange mounting
- F18 DN50 PN16 flange mounting
- F19 Tank fixing clamp and pole adaptor fitting 1/2" BSP
- F20T Hygienic 2" A's standard
- F21 Body with slip flange location
- F22 Threaded process connection 1" BSP female
- F23 Threaded Pole Adaptor for series 200 DN40 flange
- F24 Threaded Pole Adaptor for series 200 DN50 flange
- F25 2" BSP Parallel Thread
- F26 Free Standing submersible **All Hastelloy, 365 Only**
- F27 3" ANSI 150 LB flange
- F28 Basic submersible sensor **All Hastelloy, 365 Only**
- F29 3/4" Taper male connection
- F30 Slip flange body as F21 but **Hastelloy, 362 Only**
- F31T Hygienic DIN 50 mm to 11851
- F32 Threaded process connection 1/2" BSP female
- F33 Threaded process connection 1/4" BSP female
- F34T Hygienic 3" IDF
- F35 1 1/2" ANSI 150 LB flange

- BG Bulkhead fitting in carbon steel (Part No P11030-600-SA)
- BGS Bulkhead fitting in stainless steel
- IMA signal output 0 to 1mA (non I.S.)
- S5 DN50 PN16 slip flange for use with Model F21
- S2 2" 150lb SI slip flange for use with Model F21
- CC Sensor cable connector (not suitable for submersibles)

- No options required
- B High temperature sensor (up to 120° C submersible versions, 150° C external versions)
- E Temperature compensated sensor (co-efficient ± 0.01% per °C)
- G IP67 amplifier enclosure
- K Absolute sensor

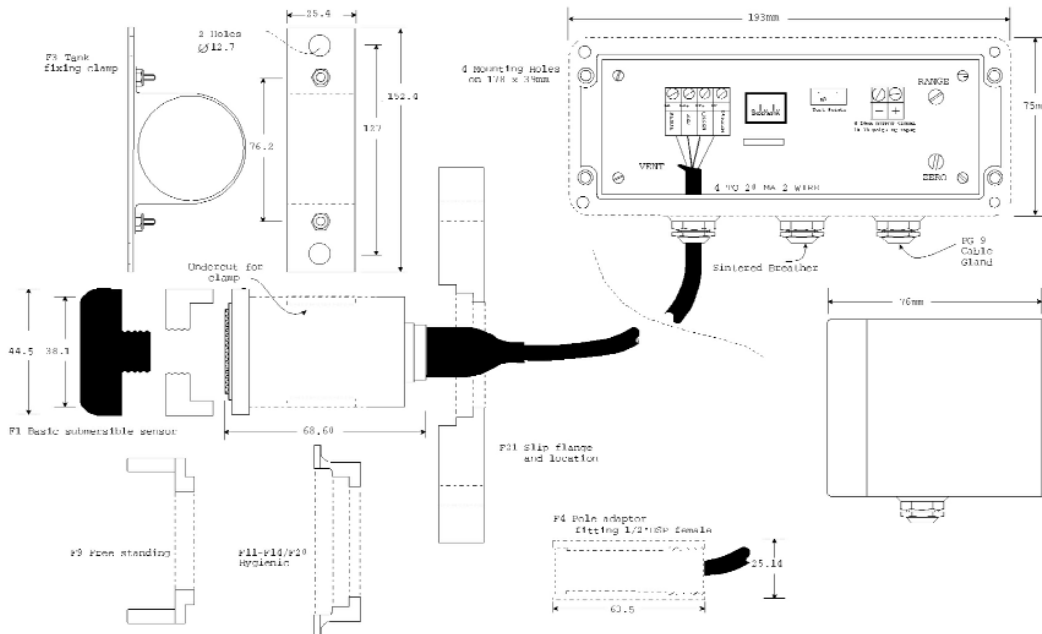
XX Transmitter set range in metres H₂O

- Standard XLEP heavy duty cable
- C High temperature cable Hytel Teflon
- XX Cable length in metres

- 0.5D 0.5m H₂O
- 1D 1m H₂O
- 2D 2m H₂O
- 4D 4m H₂O
- 8D 8m H₂O
- 16D 16m H₂O
- 32D 32m H₂O (not Hastelloy or St. Steel)

- I Inconel diaphragm
- H Hastelloy C diaphragm
- M Monel diaphragm
- S Stainless Steel diaphragm

GENERAL OUTLINE



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