

ANALOG CURRENT DEPTH/LEVEL TRANSMITTER ATM/N 19



94

Features

- Fully submersible, 0.75" diameter
- Accuracy: $\leq \pm 0.1\%$ FS or $\leq \pm 0.25\%$ FS
- Ranges 80" WC to 360 psi
- 316L SS construction
- Polyurethane or polyethylene cable
- Fully isolated sensing element

Product overview and applications

The ATM/N 19 series 94 is part of a comprehensive range of pressure transmitters specifically designed for the long term monitoring of ground water and waste water. The series 94 is available with the most commonly used 2 wire 4 to 20 mA output signal. Features such as Kevlar strengthened cable, titanium, ballast weights and data loggers broaden the installation opportunities. The modular design permits fast delivery for all pressure ranges and standard options.

Examples of applications include:

- Deep wells, lakes, dams and reservoirs
- Bore holes
- Surface water, irrigation canals and rivers
- Tank level measurement

Specification

Measurement

Pressure ranges

Any range from 80"WC to 360 psi FS available, in any engineering units such as psi, Pa, inches H₂O, bar.

Absolute or gauge types available

Proof pressure

FS up to 15 psi: 45 psi
 FS > 15 psi up to 360 psi: 3 x FS, (max. 360 psi)
 Consult factory for higher proof pressure

Operating temperature range

25 to 125°F (process media)
 25 to 175°F (process media, optional)

Compensated temperature range

25 to 125°F

Temperature effects

±1.5% total for 25 to 125°F, > 30 psi FS
 ±2% total for 25 to 125°F, 7 to 30 psi FS
 Prorated for ranges below 7 psi

Performance

Accuracy

Combined linearity, hysteresis, repeatability,
 Zero and Span set
 ≤ ±0.1% FS (≥ 7 psi FS)
 ≤ ±0.25% FS (< 7 psi FS)

Long term stability

0.1% FS/yr for pressure ranges > 30 psi
 Prorated for ranges below 30 psi
 Under standard conditions

Specification continued

Supply voltage

8 - 33 VDC
 Influence of supply voltage < 0.1% FS

Max. load resistance

$R_L = (V_{supply} - 8V) / 0.02A$
 Influence of load resistance < 0.1% FS

Output signal

4 to 20 mA, 2-wires

Insulation resistance

> 50 megohms @ 500 VDC (@ 68°F)

Response time

< 1ms, 10 to 90% FS

Construction

Pressure media compatibility

Stainless steel 316L, Viton seals
 Other seal materials available
 Titanium version on request

Pressure connection

Closed (Fig. 1) POM nose cone
 (supplied as standard)
 Other connections available

Electrical connection

Polyurethane or polyethylene cable (Fig. 1)

Specification continued

Weight

4.5 oz approximate (not including cable)

Vibration

10 g, 10 to 2000 Hz

Mechanical shock

100 g / 6 ms

Ordering information

Please specify the following:

- 1) Model number - ATM/N19 - 94
- 2) Electrical connection
 - 15 - Polyurethane cable
 - 13 - Polyethylene cable
- 3) Pressure range, including eng. units, type
- 4) Accuracy
- 5) Cable length
- 6) Any special feature

Example ordering format:
 ATM/N19 - 94 - 15 - 10 psig - 0.1% - 20 feet cable

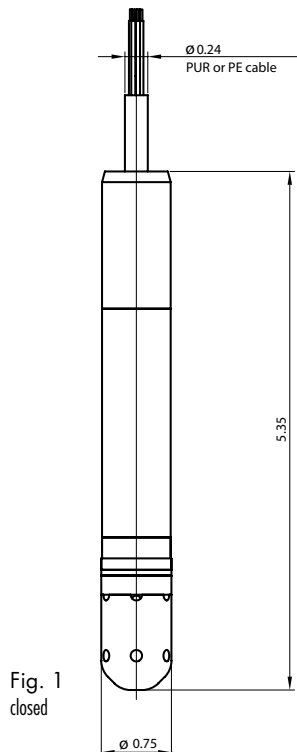
Options

STS offers a wide range of options for these and other similar transmitters. Please consult the factory for any special requirements.

Examples include:

- Alternate electrical configurations i.e. 0 to 20 mA, 4 to 20 mA, RS 485
- Lightning protection
- Intrinsic safety certification
- Alternate construction i.e. titanium
- Alternate seals i.e. EPDM, Kalrez
- Datalogging

Dimensions (inches)



Specifications may change without notice.

STS is registered ISO 9001-2000

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