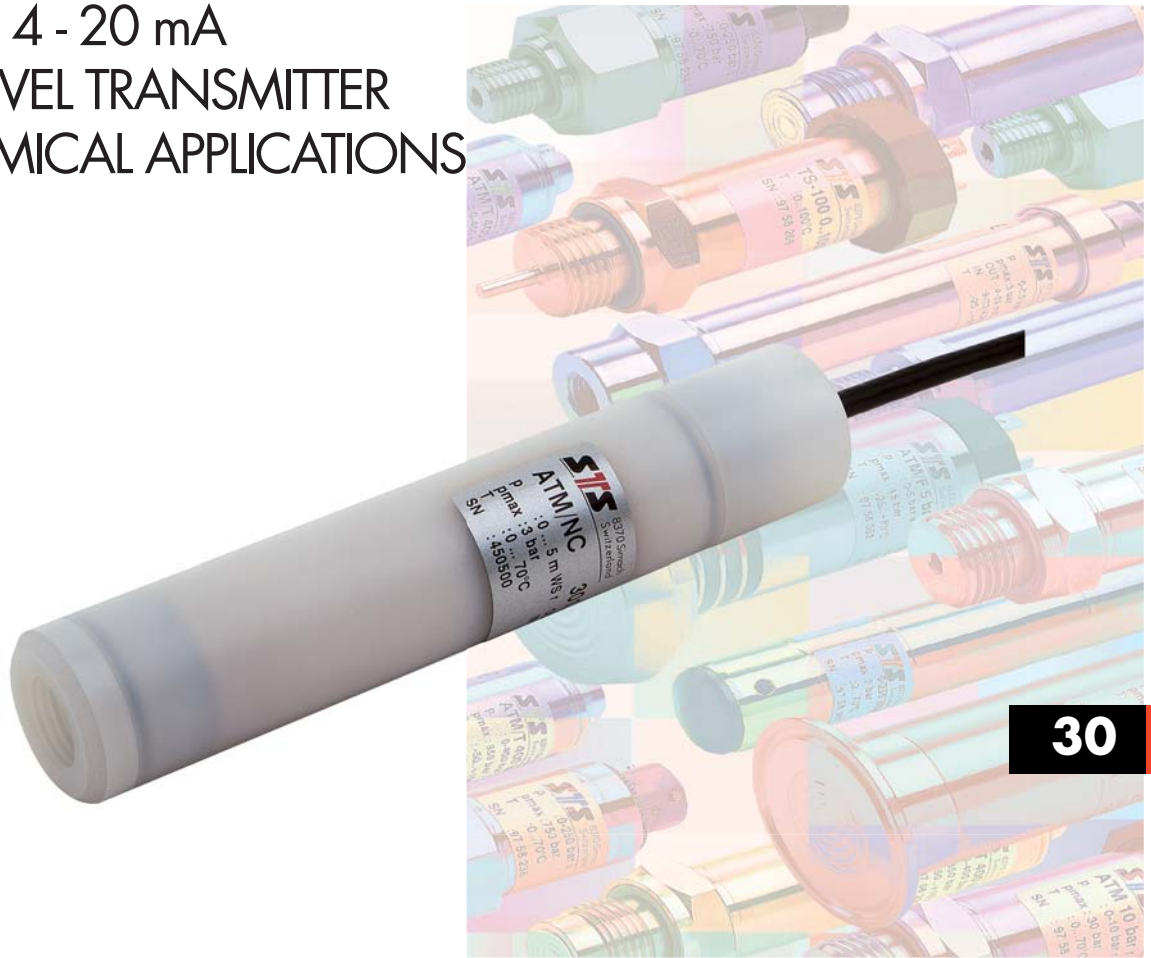


ANALOG 4 - 20 mA DEPTH/LEVEL TRANSMITTER FOR CHEMICAL APPLICATIONS ATM/NC



30

Features

- Fully submersible, 1.1" diameter
- Ranges 40" WC to 360 psi
- Chemical resistant PVDF (Kynar®) housing
- Teflon cable
- Kalrez, EPDM or Viton seals
- No wetted metallic components

Product overview and applications

The ATM/NC series 30 is part of a comprehensive range of pressure transmitters specifically designed for level monitoring in chemical tanks.

This series 30 provides a conventional 4-20mA, 2-wire configuration. Features such as Kevlar strengthened teflon cable and choice of construction materials allows installation in the most challenging applications. The modular design permits fast delivery for all pressure ranges and standard options.

Examples of applications include:

- Aggressive fluids
- Chemical tanks
- Waste water
- Sewage treatment plants

Specification

Measurement

Pressure ranges

Any range from 40" 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)

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

≤ ±2.0% FS for p < 7.25 psi

≤ ±1.0% FS for 7.25 ≤ p ≤ 29 psi

≤ 0.5% FS for p > 29psi

Long term stability

0.1% FS/yr for pressure ranges > 30 psi FS

Prorated for ranges below 30 psi FS

Under standard conditions

Supply voltage

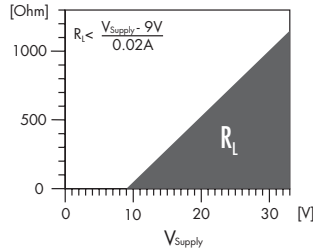
9 - 33 VDC

Influence of supply voltage < 0.1% FS

Specification continued

Load resistance

Influence of load resistance < 0.1% FS



Output signal

4 - 20 mA (2-wire)

Insulation resistance

> 50 megohms @ 500 VDC (@ 68°F)

Response time

< 1ms, 10 to 90% FS

Construction

Pressure media compatibility

PVDF (Kynar®) housing

Teflon coated diaphragm

Viton, EPDM or Kalrez seals

Pressure connection

Open (Fig.1), supplied as standard

Closed (Fig.2) Brass or POM nose cone

Electrical connection

Teflon cable supplied as standard

Polyurethane or polyethylene available

Specification continued

Weight

6 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/NC 30

2) Electrical connection

21 - Teflon cable

3) Pressure range, including eng. units, type

4) Cable length

5) Sealing material

6) Medium

7) Any special features

Example ordering format:

ATM/NC 30 - 21 - 10 psig - 20 feet cable -

Kalrez seals, 20% Hydrochloric Acid

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 5 VDC, 0 to 10 VDC, 0 to 20 mA

RS 485

- Lightning protection

- Intrinsic safety certification

- Special oil filling for food application etc.

- Alternate construction i.e titanium

- Alternate seals i.e. EPDM, Kalrez

- Wide range of pressure connectors

- Wide range of electrical connectors

- Datalogging

Dimensions (inches)

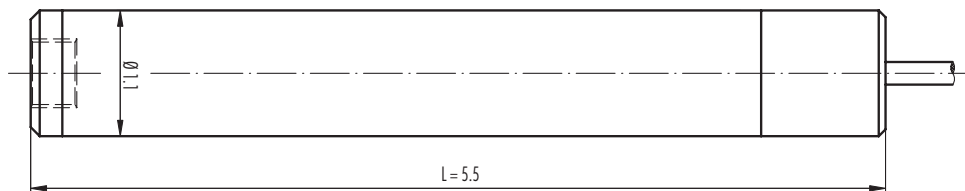


Fig. 1
open

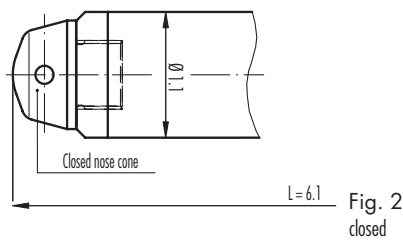


Fig. 2
closed