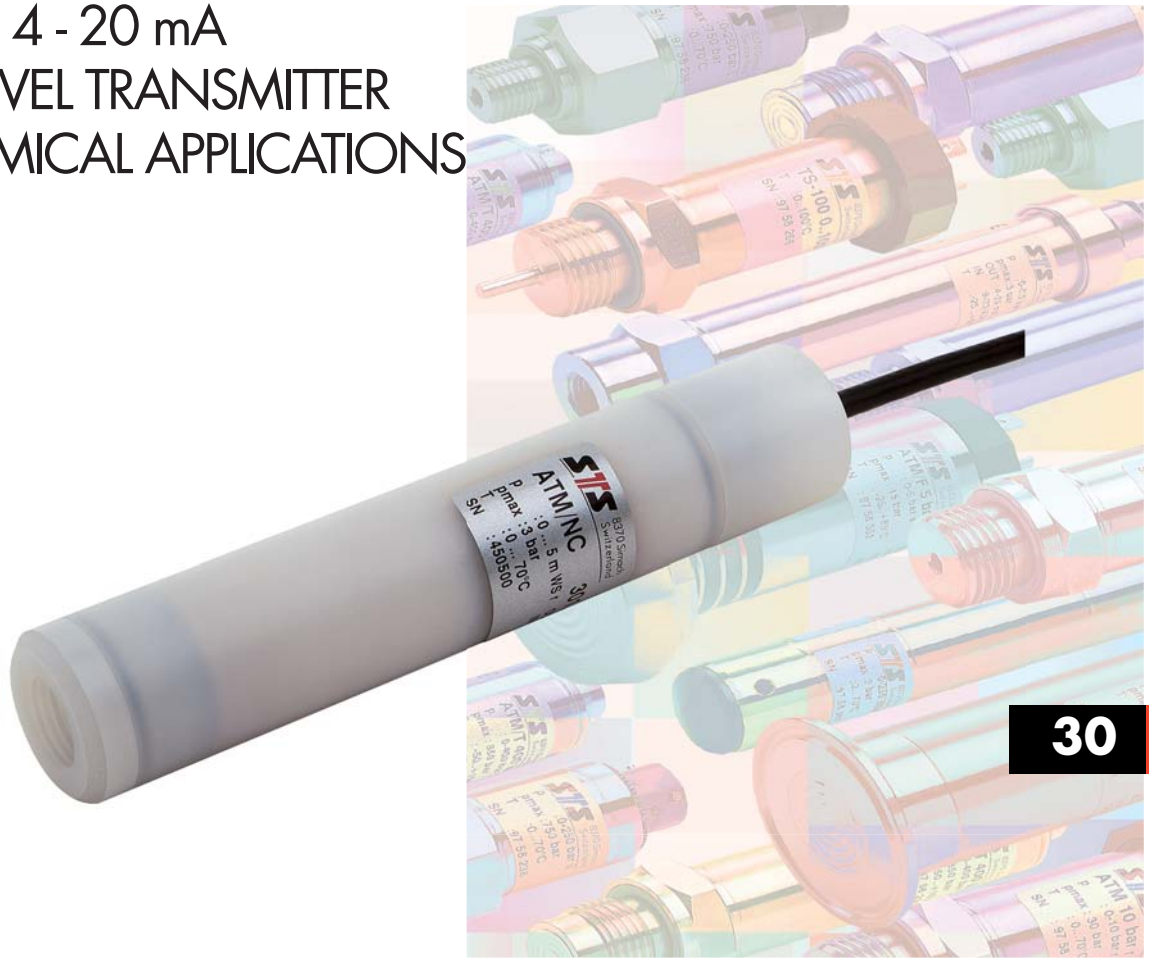


# ANALOG 4 - 20 mA DEPTH/LEVEL TRANSMITTER FOR CHEMICAL APPLICATIONS ATM/NC



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 H<sub>2</sub>O, 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

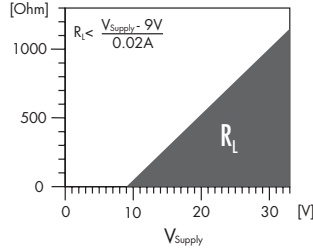
**Supply voltage**

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)**

