



ST3000 Series 900 features:

- Proven piezoresistive sensor
- High performance at a low cost
- Higher turndown ratio (up to 135 : 1)
- Higher overpressure resistance (up to 42 MPa)
- Two-way communications (SFC or HART® communicator)
- On-board self diagnostics
- Local zero and span (optional)
- Smart display meter (optional)



Digital Performance at an Analog price !

ST3000 Series 900
Smart Pressure Transmitter

**Reliable,
accurate and
stable measurements**

CE



Model #STD

ST3000 Series 900

Smart Pressure Transmitter

Specification summary *

ITEM	SPECIFICATIONS
Output (two wire)	4 to 20mA DC or digital communication mode (DE)
Supply voltage	10.8 to 45 V DC
Accuracy	± 0.075% F.S.
Working pressure rating	21 MPa (210 kgf/cm ²)
Temperature ranges	
	Ambient temp. Meter body (process fluid) temp.
Normal operating conditions	-40 to +85°C (-40 to +185°F) -40 to +110°C (-40 to +230°F)
Operative limits (for short periods)	-50 to 93°C (-58 to +199°F) -50 to 115°C (-58 to 239°F)
Transportation and storage	-50 to +85°C (-58 to +185°F)
Certifications and approvals	FM / ATEX / NEPSI / CSA Explosion-proof / Intrinsically safe (For specific models, contact a Yamatake sales representative) *STD920

Specifications are subject to change without notice

Benefits

- **Excellent long-term stability:**
 - Inspection and calibration are required only every three to five years
- **Fine-tuned characterization:**
 - Out of the box accuracy with no bench checking required
 - Re-ranging without need for re-calibration
 - Improves process control, reduces product variability, and minimizes waste
 - Reduces the amount of inventory required for spare parts
- **On-board diagnostic and remote communication with optional SFC or HART® communicator**
 - Reduces maintenance costs and process downtime
- **Full interoperability with other Fieldbus Foundation registered products**
 - Reduces field system engineering costs

ST3000 S900 Models & Ranges

Differential Pressure Transmitters

Standard (Working Pressure: up to 21 MPa)

STD910	0.1 to 2 kPa (10 to 200 mmH ₂ O)
STD920	0.75 to 100 kPa (75 to 10160 mmH ₂ O)
STD930	35 to 700 kPa (0.35 to 7 kgf/cm ²)
STD960	0.25 to 14 MPa (2.5 to 140 kgf/cm ²)

Remote Seals

STE929	2.5 to 100 kPa (250 to 10160 mmH ₂ O)
STE930	35 to 700 kPa (0.35 to 7 kgf/cm ²)

High Static Pressure (Working Pressure: up to 42 MPa)

STD921	0.75 to 100 kPa (75 to 10160 mmH ₂ O)
STD931	35 to 700 kPa (0.35 to 7 kgf/cm ²)
STD961	0.25 to 14 MPa (2.5 to 140 kgf/cm ²)

Flange

STC929	2.5 to 100 kPa (250 to 10160 mmH ₂ O)
STC940	35 to 3500 kPa (0.35 to 35 kgf/cm ²)

Pressure Transmitters

Gauge

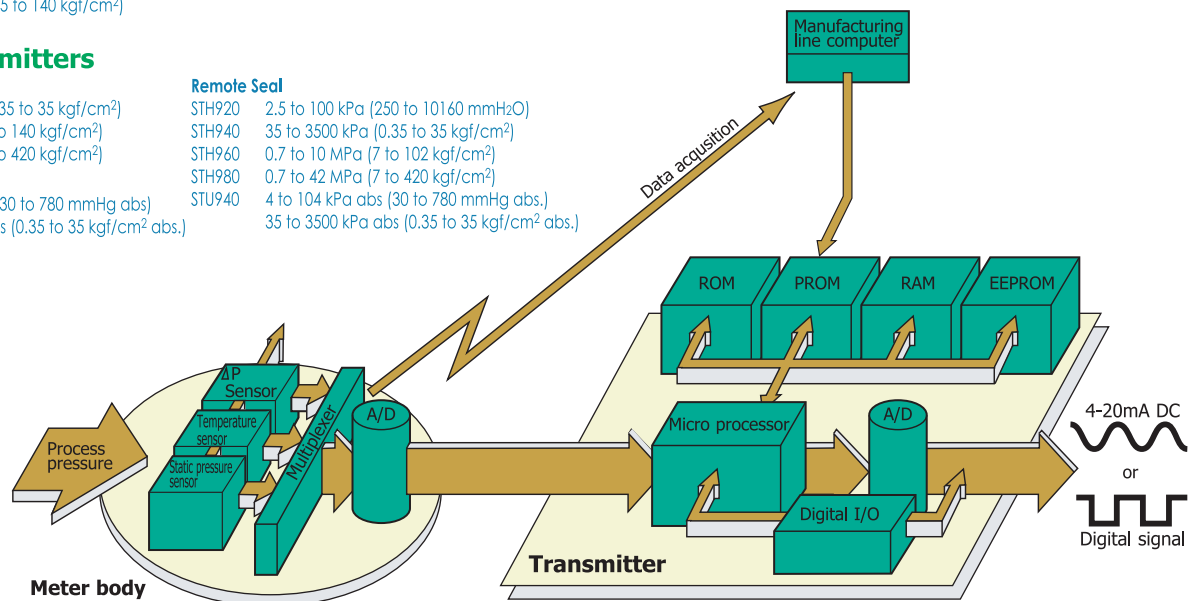
STG940	35 to 3500 kPa (0.35 to 35 kgf/cm ²)
STG960	0.7 to 14 MPa (7 to 140 kgf/cm ²)
STG981	0.7 to 42 MPa (7 to 420 kgf/cm ²)

Absolute

STA923	4 to 104 kPa abs (30 to 780 mmHg abs.)
STA940	35 to 3500 kPa abs (0.35 to 35 kgf/cm ² abs.)

Remote Seal

STH920	2.5 to 100 kPa (250 to 10160 mmH ₂ O)
STH940	35 to 3500 kPa (0.35 to 35 kgf/cm ²)
STH960	0.7 to 10 MPa (7 to 102 kgf/cm ²)
STH980	0.7 to 42 MPa (7 to 420 kgf/cm ²)
STU940	4 to 104 kPa abs (30 to 780 mmHg abs.) 35 to 3500 kPa abs (0.35 to 35 kgf/cm ² abs.)



The patented piezoresistive sensor chip contains three sensors in one (pressure sensor, static pressure sensor, and temperature sensor) to correct non-linearity that occurs in separate individual sensors.

HART® is a registered trademark of HART Communication Foundation.

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