

PRESSURE METERS • PRESSURE TRANSMITTERS

Pressure & Differential Pressure Transmitters

II-PT-001

Model ZT-2188-H • ZT-2188-G • ZT-3051DRG • ZT-3051DG • ZT-3051DP-SF

Monocrystalline silicon



Gauge, vacuum, high-temperature and differential pressure transmitters with LCD and 4–20 mA + HART.

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ISSUED

24 October 2026

Pressure & Differential Pressure Transmitters

Indiana catalogue ID **II-PT-001** Manufacturer model **ZT-2188-H · ZT-2188-G · ZT-3051DRG · ZT-3051DG · ZT-3051DP-SF** Pressure Meters

Gauge, vacuum, high-temperature and differential pressure transmitters with LCD and 4–20 mA + HART.

ACCURACY To 0.075% F.S.	DP RANGE To 25,000 mmWC	OUTPUT 4–20 mA + HART
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01 Overview

A calibrated-range family covering gauge pressure to 200 kg/cm², vacuum to –1 kg/cm², high-temperature service with Hastelloy C-276 diaphragms, and monocrystalline silicon differential pressure from –100 mmWC to 25,000 mmWC. All models are two-wire 4–20 mA with HART and an integral LCD.

02 Views



PRIMARY VIEW Gauge pressure transmitter and differential pressure transmitter with LCD housings
Product photograph



ALTERNATE VIEW Differential pressure transmitter with remote diaphragm seals and capillaries
Product photograph



ALTERNATE VIEW Gauge pressure transmitter with LCD housing and threaded process connection
Product photograph



ALTERNATE VIEW Gauge and differential pressure transmitters
Product photograph

03 Principal data

COMMON TO THE RANGE

Output	4–20 mA with HART, two-wire, as specified for each model
Power supply	24 V DC, as specified for each model
Display	LCD showing pressure, current and 0–100% proportional display
Communication	HART protocol using BELL202 FSK, 1200 Hz or 2000 Hz superimposed on the 4–20 mA signal
A/D conversion	18-bit
Configuration memory	EEPROM, non-volatile

The full set of stated values, variants and open points is in the specification document for this product.

04 Operating principle

1. 01 The monocrystalline silicon transmitter is a digital instrument built on silicon sensor technology with single-chip microcomputer and sensor digital conversion.
2. 02 The demodulator output is converted by an 18-bit A/D circuit and passed to the microprocessor, which handles precision correction, engineering-unit conversion, sensor linearisation, range ratio and damping.
3. 03 EEPROM stores all configuration, characterisation and digital tuning parameters and is non-volatile, so settings survive a power loss.
4. 04 D/A conversion returns the corrected digital signal to the 4–20 mA loop. HART uses BELL202 frequency shift keying, superimposing a 1200 Hz or 2000 Hz digital signal on the 4–20 mA signal without disturbing it.
5. 05 An integrated ASIC performs signal conversion, acquisition and current output control, which gives the transmitter its stability, vibration resistance and interchangeability.

05 Applications and industries

APPLICATIONS

- Gauge and vacuum pressure monitoring on plant headers
- Steam and air pressure measurement
- Differential pressure across filters, draught systems and orifice plates
- Flow measurement using differential pressure
- Liquid level in open and closed vessels
- Liquid ammonia level in pressurised vessels using remote diaphragm seals

INDUSTRIES

Power generation	Petrochemical	Metallurgy
Food and pharmaceutical	Paper	Textile

TO QUOTE THIS WE NEED

- Measured variable — gauge, absolute, vacuum or differential pressure
- Calibrated range and engineering unit
- Maximum working and static pressure
- Process medium and its temperature
- Ambient operating temperature
- Process connection and thread standard
- Wetted parts and diaphragm material
- Output and communication — 4–20 mA, HART
- Display and mounting bracket requirement
- Hazardous-area certification required

CONFIRM BEFORE ORDERING

- The source quotation gives both “thread / diaphragm material: 316L” and “diaphragm material: Hastelloy C-276” for IIT-2188-G. Confirm the exact wetted-part and diaphragm construction before approval.
- For IIT-3051DRG, verify the required calibrated range and maximum static pressure for the specific application before purchase.
- Specifications are transcribed from the supplier quotation dated 13 October 2026. Confirm final configuration before ordering.

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QUOTATION

List the product, ID and quantity; add process conditions. We reply with a quotation.

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