

CASCED Controlled English Translation

Source file: 流量计/FPT100流量压力温度一体传感器.pdf

Original diagrams and page relationships are retained in the paired source PDF. The following English text is the controlled translation and data transcription.

FPT100 Integrated Flow, Pressure, and Temperature Sensor

Model: FPT100

Product family: Flow Measurement

Category: Multivariable Sensors

Overview

Integrated sensor combining a turbine flow meter, pressure sensor, and temperature sensor for three-variable pipeline monitoring.

Features

- Local flow display
- Programmable flow alarm
- 4–20 mA and switch outputs
- Reverse-polarity, short-circuit, and overload protection

Applications

- Water, diesel, and hydraulic-oil systems
- Machinery
- Filtration systems
- Hydraulic equipment

Technical Specifications

Specification	Source value
Accuracy	0.5%
Nonlinearity	≤0.5% FS
Temperature drift	0.1% FS/year
Pressure range	0–400 bar in technical table; ordering codes extend to 600 bar
Temperature range	-20°C to +150°C
Flow range	0–1000 m³/h
Nominal sizes	DN2–DN250
Response time	2.3 s

Specification	Source value
Supply	12–30 VDC
Outputs	4–20 mA and switch
Protection	IP65
Materials	304 stainless-steel housing and wetted parts
Electrical connection	M12×1

Source-Control Status

Review required — pressure range conflicts between the technical table and ordering table.