

CASCED Controlled English Translation

Source file: 流量计/FL100涡轮流量计.pdf

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

FL100 Turbine Flow Sensor

Model: FL100

Product family: Flow Measurement

Category: Turbine Flow Sensors



Overview

Compact turbine flow sensor that converts rotor movement into a pulse or analog signal proportional to flow.

Features

- High pressure capability
- Fast response
- Low pressure loss
- Compact design
- Good repeatability

Applications

- Petroleum and chemical processing
- Hydraulic and lubrication systems
- Test stands
- Circulating-water systems
- Water and oil cooling

Technical Specifications

Specification	Source value
Measurement range	0.6–650 L/min

Specification	Source value
Supply	12–30 VDC
Outputs	Pulse or 4–20 mA
Accuracy	≤2% FS
Repeatability	<0.5% FS
No-load current	<15 mA
Pressure options	60; 100; 250; 400 bar
Media temperature	-20°C to +90°C
Ambient/storage temperature	-20°C to +70°C / -20°C to +80°C
Protection	IP65 DIN connector; IP67 direct cable or M12×1
Materials	304 stainless-steel body and rotor; carbide-steel shaft
Media	Low- to medium-viscosity liquids
Viscosity range	1–100 cSt
Nominal sizes	DN4 through DN300 in ordering table

Source-Control Status

Review required — source page 1 contains FBC230 ordering content; the flow table includes values that require layout-level verification.