

CASCED Controlled English Translation

Source file: 流量计/FL510齿轮流量计.pdf

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

FL510 High-Accuracy Gear Flow Sensor

Model: FL510

Product family: Flow Measurement

Category: Gear Flow Sensors



Overview

Positive-displacement dual-gear sensor for continuous or intermittent low-flow measurement of viscous liquids.

Features

- Pulse/analog output options
- High-pressure and high-/low-temperature options
- Wide 1:100 turndown as printed
- Corrosion-resistant options

Applications

- Resins and adhesives
- Hydraulic oil and grease
- Fuel oil
- Ink and asphalt
- Solvents and cryogenic fluids
- Batch control

Technical Specifications

Specification	Source value
Measurement range	5 mL/min to 330 L/min across L2–L32 variants

Specification	Source value
Outputs	Pulse; 4–20 mA; combined pulse/switch/communications options in source
Accuracy	0.5% FS
Repeatability	0.1% FS
Supply	16–30 VDC
Media temperature	-196°C to +200°C with custom high/low-temperature configuration
Pressure by body	Aluminum 150 bar; stainless steel 400 bar; PP 50 bar
Viscosity statement	Up to 10,000 Pa·s, as printed
Flow equation	$Q = f \times 60 / K$

Source-Control Status

Review required — page 1 contains FL110 ordering codes; page 2 is headed FL500 in one section and FL510 in another.