

CASCED Controlled English Translation

Source file: 流量计/FL500数显齿轮流量计.pdf

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

FL500 Digital Gear Flow Meter

Model: FL500

Product family: Flow Measurement

Category: Gear Flow Meters



Overview

Digital positive-displacement gear flow meter for low-flow and viscous-liquid measurement.

Features

- LCD
- Analog and switch outputs
- PNP/NPN selection
- High repeatability
- Corrosion-resistant options

Applications

- Resins and adhesives
- Hydraulic and lubricating oils
- Fuel oil
- Ink and asphalt
- Cryogenic and solvent service
- Batch control

Technical Specifications

Specification	Source value
Measurement range	5 mL/min to 330 L/min across L2–L32 variants
Outputs	4–20 mA; PNP/NPN
Accuracy	0.2% 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
Range codes	L2 5–300 mL/min; L4 0.1–3 L/min; L6 0.15–8 L/min; L10 0.8–20 L/min; L15 3–50 L/min; L25 20–200 L/min; L32 30–330 L/min
Flow equation	$Q = f \times 60 / K$

Source-Control Status

Review required — OCR-derived; the source also references FL510 and contains several layout ambiguities.