

CASCED Controlled English Translation

Source file: 油液监测/BFV-3水分传感器. pdf

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

BFV-3 Oil Moisture Sensor

Model: BFV-3

Product family: Oil Condition Monitoring

Category: Moisture Sensors



Overview

Online oil-moisture and temperature sensor supporting water activity or ppm measurement.

Features

- Water-activity or ppm ranges
- RS-485 Modbus standard
- Optional analog output
- 316 stainless-steel probe

Applications

- Lubricating oil
- Hydraulic oil
- Gear oil
- Engine oil
- Fuel

Technical Specifications

Specification	Source value
Moisture ranges	0–100 ppm; 500 ppm; 1000 ppm; 2000 ppm; custom
Moisture accuracy	±10% or 10 ppm, whichever is greater

Specification	Source value
Water activity range	0–1 aw
Water activity accuracy	±0.02 aw from 0–0.6; ±0.03 aw from 0.6–0.9; ±0.04 aw from 0.9–1
Response time	<60 s
Temperature range/accuracy	-40°C to +120°C / ±0.3°C at +25°C
Digital output	RS-485 Modbus; RS-232 optional
Analog output	4–20 mA or 0–20 mA, load <500 Ω, optional
Process connection	G1/2 ISO or 1/2 NPT
Pressure	Up to 100 bar
Supply	9–36 VDC
Protection	IP66
Weight	200 g

Source-Control Status

Ready