

CASCED Controlled English Translation

Source file: 油液监测/BFF-2含水率传感器.pdf

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

BFF-2 Oil Water-Content Sensor

Model: BFF-2

Product family: Oil Condition Monitoring

Category: Water-Content Sensors

Overview

Online sensor for continuous monitoring of oil water content and temperature.

Features

- Measures dissolved, free, and emulsified water as stated in source
- RS-485 plus optional dual 4–20 mA outputs
- 316 stainless-steel housing

Applications

- Lubricating oil
- Hydraulic oil
- Gear oil
- Engine oil
- Fuel
- Insulating oil
- Turbine oil
- Synthetic oils

Technical Specifications

Specification	Source value
Water-content ranges	0–5%; 0–10%; 0–20%; custom
Water-content resolution	0.1%
Temperature range	–40°C to +120°C
Temperature resolution	0.1°C
Digital output	RS-485
Analog output	Two 4–20 mA channels, optional
Process connection	G1/2 BSP

Specification	Source value
Operating temperature	-40°C to +85°C
Oil temperature	-40°C to +120°C
Pressure	<100 bar
Supply	9–28 VDC
Protection	IP66
Weight	250 g
Cable	2 m, 6-core, UL 20866, 6×22 AWG

Source-Control Status

Review required — source accuracy line mixes percent and degrees Celsius; the exact water-content accuracy is unclear.

BFF-330 Water-Content Display Controller

Model: BFF-330

Product family: Oil Condition Monitoring

Category: Display Controllers

Overview

Two-channel display and alarm controller for use with the BFF-2 sensor.

Features

- Displays temperature and water content
- Two relay alarm outputs
- 24 VDC isolated transmitter supply

Applications

- Local display and alarm control for BFF-2 installations

Technical Specifications

Specification	Source value
Supply	100–240 VAC, 50 Hz
Sensor supply	24 VDC, max. 60 mA
Input	4–20 mA
Accuracy	0.2% FS
Operating temperature/humidity	0–50°C / 0–85% RH, non-condensing
Sampling period	Minimum 1 s, selectable
Power consumption	≤9 W
Display	STN monochrome LCD, 128×64 dots; source later also lists 320×200
Relay outputs	2 NO, 250 VAC/3 A or 30 VDC/3 A resistive
Dimensions	160(W)×80(D)×100(H) mm
Weight	0.5 kg

Source-Control Status

Review required — display resolution conflicts within the source.