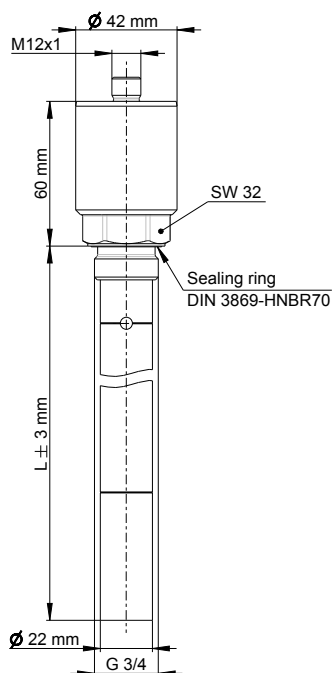


HySense® CL 1xx

The **HySense® CL 1xx** is a high intelligence sensor that not only determines oil level precisely, but also measures the following oil condition parameters: relative humidity, relative permittivity, conductivity, and temperature. After a calibration phase, this sensor can evaluate an oil's condition and output it based on implemented condition algorithms. Moreover, the corresponding analysis application that is implemented in MultiSystem measuring devices makes it enormously easier to operate and use the sensors. Finally, the intuitive menu navigation and the stored oil database both make it easy to quickly acquire, visualize, evaluate, and store oil condition parameters.

Advantages when combined with MultiSystem measuring devices.

- | Database for storing data for specific systems and measuring points
- | Access to an integrated oil database
- | The ability to define limits
- | The ability to visualize conditions with a traffic light pattern
- | The ability to store readings
- | The ability to display histories
- | The ability to export readings via USB
- | Report template



Sensor	L mm	Part No.
HySense® CL 120	200	3402-CL12-G926C0-000
HySense® CL 130	375	3402-CL13-G926C0-000
HySense® CL 160	615	3402-CL16-G926C0-000

General characteristics

Fluid	Mineral oils (H, HL, HLP, HLPD, HVLP), synthetic esters (HETG, HEPG, HEES, HEPR), polyalkylene glycols (PAG), zinc-free ash-free fluids (ZAF), polyalphaolefins (PAO)*
Measured variables	Level, rel. humidity, rel. permittivity, conductivity, temperature
Immersion length	200 mm / 375 mm / 615 mm
Interfaces	RS-232, CANopen, 4 ... 20 mA
Electrical connector	M12 A 8p m
Max. operating pressure	50 bar
IP degree of protection	IP67 (DIN EN 60529)
Operating temperature	-20 ... 85 °C
Seal material	HNBR

Measured variable	Measuring range	Measuring accuracy
Rel. permittivity	1 ... 7	±0.015
Rel. humidity	0 ... 100% r.H.	±3% r.H. @ (10 ... 90%) ±5% r.H. @ (< 10%, > 90%)
Conductivity	100 ... 800,000 pS/m	< ±10% @ (2000 ... 800,000 pS/m) ±200 pS/m @ (100 ... 2000 pS/m)
Fill level	115 mm / 288 mm / 515 mm	±5%
Temperature	-20 ... 85 °C	±2 °C