

# Integrated safety detector Comem RIS2

## bunch of accessories in one single device

Comem RIS2 integrates the functions performed by different transformer accessories into a single, compact and reliable device that keeps constant control of the transformer's pressure, temperature, oil level and gassing.

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Comem RIS2

**Advantages:**

- Different functions efficiently combined into a single compact design
- Reliable instrument, which guarantees numerous advantages, from economic to functional
- Easy installation and easy maintenance

**Application:**

- Hermetically sealed liquid-filled distribution and small power transformers

**Benefits and features:**

- 180 degree visibility for liquid level indicator
- IP67
- Easy installation
- Environmental friendly
- Wide setting pressure range
- Double insulation system, no need to make the earth connection
- Air venting valve for draining the moisture inside the terminal box
- Withstand a DC magnetic field up to 25 mT
- No need of anti-magnetism shielding
- UV protection screen
- 2 reeds
- 2 pressure switches
- 2 thermostats
- Possibility to embed a PCB
- Compliant with IEC 60076-22-1



**TECHNICAL DATA**

Standard	IEC 60076-22-1
Degree of protection (CEI-EN 60529)	IP66 IP67 upon request
Degree of shock tightness (EN 50102)	IK 07
Salt-fogtight	1,000 h
UV-Ray resistance (UNI-ISO 4892 / UNI-ISO 4582)	500 h
Ambient temperature	from -40°C to 60°C
Oil temperature	from 40°C to 120°C
Cable connection	M25x1.5
Cable box (EN 60947-7-1 / IEC 947-7-1)	According to standard
Wire section to be used on clamp box	Up to 2.5 mm <sup>2</sup>
Max. rated pressure	500 mbar
Electrical characteristics	Insulated enclosure
Thermostats precision	± 4°C accuracy tolerance of end scale
Overpressure switches precision	± 10% accuracy tolerance of end scale
Thermometers precision	± 3°C accuracy tolerance of end scale

CONTACTS INTERRUPTION POWER	Voltage	Making capacity	Breaking capacity
Liquid level / gas bleed	24 V dc to 230 V dc	2A	100 mA L/R < 40 ms
Pressure switch			
Thermostat	24 V to 230 V ac	2A	2A cos Φ > 0.5

**• Gassing**

Detector closes/opens a circuit when the max. gas volume is reached (max.170 cm<sup>3</sup>)

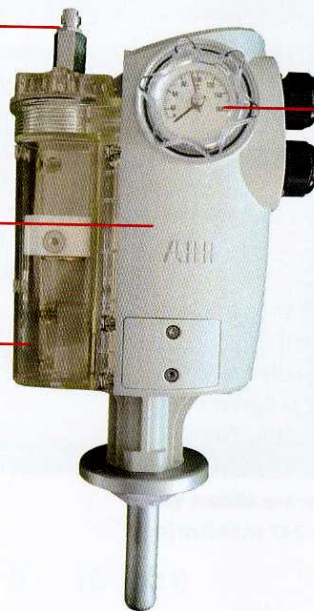
**• Pressure**

Pressure switch closes/opens a circuit on pressure ranging (from 100 up to 500 mbar)

**• Oil level**

Indicator: visual indication of slight oil level variation

Detector: visual detector of significant oil level variation through closing/opening of an electric circuit



**• Temperature**

Thermometer: visual indication of oil temperature and max. temperature reached

“T2” Thermostat switch alarm closes/opens a circuit at a predetermined temperature level (from 30°C up to 120°C)

“T1” thermostat switch stop closes/opens a circuit at a predetermined temperature level (from 30°C up to 120°C)

For more details please consult our web page

