

KT-200 Moisture in Oil Transmitter

Product profile

KT-200 is a fast, reliable and accurate online detector for water activity (aw) in oil and temperature (T). It is very suitable for integration in OEM application with its rugged housing and excellent performance. KT-200 is ideal for online monitoring of moisture in lubrication, hydraulic or insulation oil, which is significant for the long-term performance and preventive maintenance of plant and machinery.

Major features

- Continuous measurement of water activity in oil and temperature
- Professional calculation of moisture content in ppm for transformer oil
- Accurate and reliable, robust design under hostile environments
- Convenient local & remote calibration
- Excellent pollution & pressure tolerance
- Compact, easy for integration
- Analog and Digital Signals Output



Technical Parameters

Water activity	
Measurement range	0 1 aw
Accuracy	0 0.6 ± 0.02 aw
	0.6 1 ± 0.03 aw
Resolution	0.001 aw
Response time (typical)	< 1 min
Water in oil	
Measurement range	0100ppm, 500ppm, 1000ppm, 2000ppm or customized
Accuracy	±10% or 10ppm (choose the higher one)
Temperature	
Measurement range	-40 120 °C
Accuracy (at +25 °C)	± 0.3 °C
Working temperature	-40 +80 °C
Storage temperature	-40 +80 °C
Oil temperature permitted	-40 +120 °C
Output	
Digital signal	RS485 MODBUS RTU, RS232 (optional)
Analog signal	4~20mA, resistive load 200…500Ω
Others	
Housing material	316 & 304 stainless steel
Weight	200g (transmitter), 270g(package)
Package size	172×117×53 mm carton
Ingress Protection	IP65



Mechanical connections G 1/2" ISO or 1/2" NPT

Pressure range Max 20 bar (confirm with Kongter for other ranges)

Resistance load $200 \dots 500 \Omega$

Supply voltage DC 9V-36V(RS485 communication), DC15V-36V(@4-20mA)

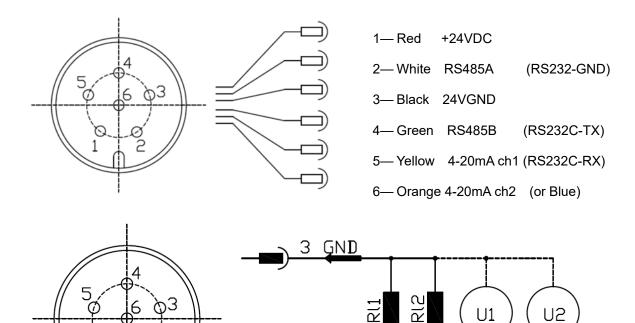
Supply current <5mA+load current

Cable specification M8*1, 6 pin

Cable length 2 m

Standard applied CE certified, EN61326-1, EN61000-3, EN61010 class B

Connector Definition



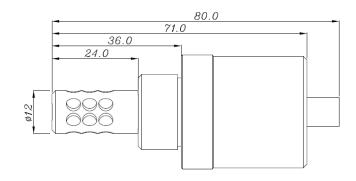
Note:

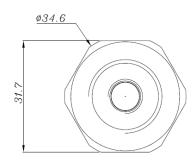
For 4-20mA output connection, we will recommend load resistance of 250Ω or 500Ω (better 500Ω) for RL1 & RL2. If you need higher than 500Ω or lower than 100Ω , please confirm with Konger upon order.

<u>Iou</u>t1

6 Iout2

Structure Dimension (mm)







Option & Parts

Stainless steel filter
USB-RS485 converter
USB-RS232 converter
Seal washer: ISO G1/2"

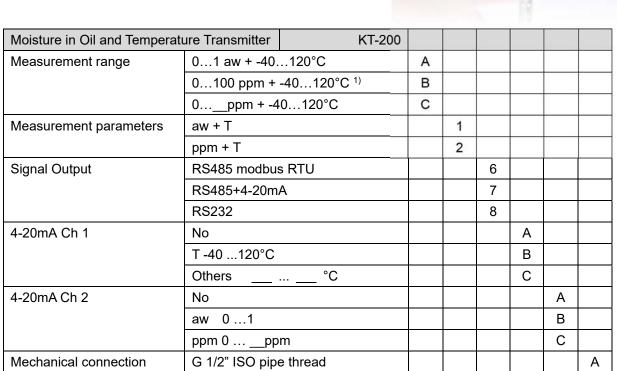
Connecting cable: 2m, M8 screw thread, 90°bend angle

3m, M8 screw thread, 90°bend angle

PC software: OV600

Display and control unit: KT-200D (optional)

Order info



¹⁾ ppm is only applicable to mineral transformer oil. If you need to measure ppm value in other oil, please contact us.

1/2" NPT taper thread

Example for order: KT-200 B27BCA

Measurement range: 0...100 ppm + -40...120°C

Measurement parameters: ppm + T

Output: RS485+4-20mA 4-20mA Ch 1: T -40 ...120°C 4-20mA Ch 2: ppm 0 ...100 ppm

T range: -40 ... 120°C

Mechanical connections: G1/2" ISO

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