KT200 Moisture in Oil Transmitter

Product profile

KT200 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. KT200 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

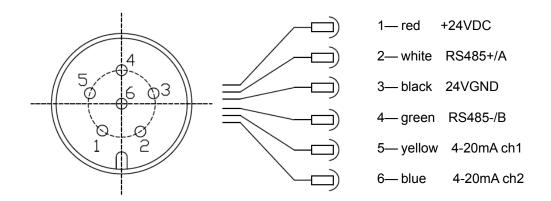
Water activity	
Measurement range	0 1 aw
Accuracy	00.6 ± 0.02
	0.6 1 ± 0.03
Response time (typical)	< 1 min
Water in oil	
Measurement range 1)	0 100 ppm (suitable for Mineral transformer oil)
Accuracy	±10% or 10ppm max
Temperature	
Measurement range	-40 120 °C
Accuracy (at +25 °C)	± 0.3 °C
Working temperature	-40 +80 °C
Storage temperature	-40 +80 °C
Oil temperature permitted	-40 +120 °C
Output	
Digital signal	RS485 MODBUS, RS232 (optional)
Analog signal	4~20mA, resistive load=500Ω
Others	
Housing material	304 stainless steel
Weight	220g (transmitter), 270g(package)
Package size	172×117×53 mm carton
Ingress Protection	IP66
Mechanical connections	G 1/2" ISO or 1/2" NPT
Pressure range	Max 100 bar
Resistance load	250 500 0
	250 500 Ω

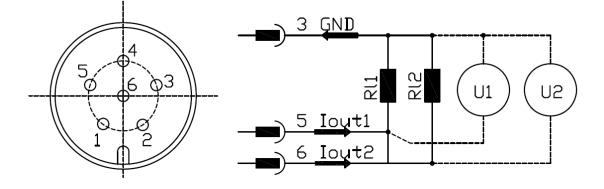


Cable specification	M8 6 pin
Cable length	2 m
Standard applied	CE certified, EN61326-1 EN61326-2-3 standard
	ICES-003 B

¹⁾ other measurement range is optional

Connector Definition

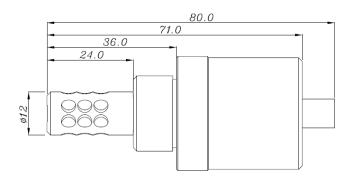


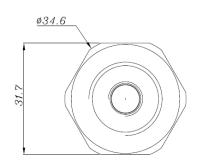


Note:

For 4-20mA output connection, we will recommend load resistance RL1 & RL2 of 250Ω or 500Ω .

Structure Dimension (mm)







Option & Parts Stainless steel filter USB-RS485 converter USB-RS232 converter Seal washer: ISO G1/2" Connecting cable: 5m, M8 screw thread, 90°bend angle 10m, M8 screw thread, 90°bend angle 2m, M8 screw thread, with LED



PC software: OW600

Display and control unit: KT200D (optional)

Order info

Moisture in Oil and Temperature Transmitter		KT200					
Measurement parameters	aw + T	А					
	ppm + T ¹⁾	В					
	aw + ppm + T ¹⁾	С					
Output	4-20mA + RS485		1				
	RS232		2				
Analog output Ch 1	T -40 120°C			3			
	Others °C			4			
Analog output Ch 2	aw 01				D		
	WCO 0 100 ppm				Е		
	WCO 0ppm				F		
Mechanical connections	G 1/2" ISO					G	
	1/2" NPT					Н	
Cable length	2m						5
	3m						6

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

Example for order: KT200 C13EG5 Measurement parameters: aw + ppm + T Output: 4-20mA* 2 channel and RS485 1 channel ppm range: 0 ... 100 ppm T range: -40 ... 120°C Mechanical connections: G1/2" ISO Cable length: 2m

Kongter Test & Measurement Co., Limited