



KC/5 ROTATING CONSISTENCY TRANSMITTER



Revolutionary Direct Drive Servo Motor

The KC/5 is a rotary transmitter that requires no compromises. Excellent consistency measurement performance, light weight construction, simple installation and dramatically reduced maintenance make the KC/5 the new standard for rotary consistency transmitters.

Remove transmitter while process is running

Built-in gate valve assembly allows you to extract transmitter "on the fly", at full process pressure, without having to shut down or drain the line.

Fast and accurate measurement

Through KPMs "state of the art" torque measurement technology the KC/5 provides an accurate consistency measurement - instantly! Our sensitive, wide-range measurement sensor is applicable to all consistencies between 1.5-16 %. Built-in temperature compensation assures performance in all process conditions.



Low installation costs

KC/5 is easy to install. Replace your existing model rotary transmitter with KC/5 using our special adapter to fit your current rotary installation. For new installations use KPMs installation cone that is provided with the transmitter. All required hardware is included. KC/5 requires 85 - 254 VAC single phase power supply, 150W.



Dramatically reduced maintenance

With no drive belt to change, KPMs Direct Drive Servo Motor never needs maintenance. Unique Mechanical Seal System makes seal maintenance low cost and infrequent. Replace the seals, on site, in one hour or less!

Powerful self diagnostics

Automatic maintenance features include reverse direction rotation to automatically loosen foreign objects. Calibration verification is possible while the KC/5 is operating in the line.



SPECIFICATIONS

SENSOR TYPE	Rotating Consistency Transmitter
OUTPUT SIGNAL	Analog output 4 - 20 mA + HART (Active or passive, user selectable)
BINARY INPUTS	24 VDC (supplied from DCS), three for built-in calibration curves, one for process stop, one for sample button
BINARY OUTPUT	Alarm output; max 30 VDC, 2A; Opening or closing dry contact
POWER REQUIREMENTS	85 - 264 VAC, 47 - 63 Hz, 150W, Single phase.
MOTOR	150 W, Integrated Direct Drive Servo Motor
MEASURING RANGE	1.5 % to 16 % consistency
SENSITIVITY	Better than 0.003 % Cs
PRESSURE RATING	Standard PN16. PN25 model available. Gate Valve PN10 or PN16.
PROCESS TEMPERATURE	0 - 100 °C, 120 °C with seal water
AMBIENT TEMPERATURE	Sensor 0 - 60 °C, Display unit 0 - 50 °C
FLOW VELOCITY	0 - 5 m/s
SEAL WATER	Integrated seal water tank; or mill seal water, R1/8" internal thread (compatible with NPT 1/8")
HOUSING	IP66 (NEMA 4X) enclosure.
CABLING	10 m interconnect cable from Sensor to Display Unit
GATE VALVE	DN80 (3") opening 316L standard, Titanium available.
INSTALLATION CONE	Installation cone fits all pipe diameters of 150 mm (6") and larger, 316L standard, 254SMO and Titanium Gr2 optional. Adapter available for other manufacturer's measuring vessels.
SENSOR MATERIAL	Wetted parts AISI 316L or Titanium.
DIMENSIONS (L*H*W) AND WEIGHTS	Sensor: 520 x 140 x 180 mm, 14,8 kg Display Unit: 200 x 300 x 150 mm, 6 kg Installation assembly: 430 x 560 x 200 mm, 19 kg

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