



## 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 KPM'S “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 that fits most current rotary installations. For new installations use KPM'S installation cone that is provided with the transmitter. **All required hardware is included**. KC/5 requires 115 VAC single phase power supply, 150W.



### *Dramatically reduced maintenance*

With **no drive belt** to change, KPM'S 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

<b>SENSOR TYPE</b>	Rotating Consistency Transmitter
<b>OUTPUT SIGNAL</b>	Analog output 4 - 20 mA + HART; (Active or passive, user selectable)
<b>BINARY INPUTS</b>	24 VDC (supplied from DCS), three for built-in calibration curves, one for process stop, one for sample button
<b>BINARY OUTPUT</b>	Alarm output; max 30 VDC, 2A; Open or closed dry contact
<b>POWER REQUIREMENTS</b>	115 VAC, 60Hz, 150W, Wired to the Display Unit.
<b>MOTOR</b>	Display Unit powers the KC/5 Direct Drive Servo Motor.
<b>MEASURING RANGE</b>	1.5 % to 16 % consistency.
<b>SENSITIVITY</b>	Better than 0.003 % Cs
<b>PRESSURE RATING</b>	Standard – 150 psi Pressure Rating. Gate Valve is rated at 150 psi. Optional 300 psi high pressure version is available.
<b>PROCESS TEMPERATURE</b>	32 - 212 °F, use external cooling water for processes up to 248 °F.
<b>AMBIENT TEMPERATURE</b>	Sensor 32 - 140 °F; Display unit 32 - 122 °F.
<b>FLOW VELOCITY</b>	0 - 16.4 feet/s.
<b>SEAL COOLING</b>	Integrated seal water cooling. For longer seal life use clean seal water.
<b>HOUSING</b>	NEMA 4X.
<b>CABLING</b>	30' cable from Sensor to Display Unit is included.
<b>GATE VALVE</b>	3" 316L standard. Titanium is optional.
<b>INSTALLATION CONE</b>	Installation cone fits all pipe diameters 6" and larger, 316L standard, 254SMO and Titanium Gr2 optional. Special adapter for existing rotary installations.
<b>SENSOR MATERIAL</b>	All wetted parts AISI 316L. Titanium is optional.
<b>DIMENSIONS (L*H*W) AND WEIGHTS</b>	Sensor: 20.5" x 5.5 x 7", 32 lbs; Display Unit: 7.9" x 11.8" x 5.9", 13#. Installation assembly: 17" x 22" x 8", 42#.

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