

PULP AND PAPER

KPM KC3 Consistency Transmitter

KPM Products | Process Measurements



Reliable, damage resistant transmitter

Patented, shock resistant seal-less transfer mechanism with unbreakable diaphragm stops process from entering transmitter; all wetted parts are constructed of titanium.

Measures a wide consistency range (2 - 16 %)

One transmitter type fits all applications. A unique highly sensitive eddy probe measures shear force accurately.

Remote display unit

Remote display unit can be mounted to any desirable location. Large display and intuitive, menu driven user interface which features simple set-up, calibration and troubleshooting functions.

Simple calibration

One-touch calibration sequencing makes sampling, set-up and calibration easy. Built-in features include: time-stamping of samples for later evaluation and calibration,

calibration calculation with multiple points and statistics, and remote selections for different pulp grades.

Low installation and lifetime costs

Standard stainless steel mounting saddle (titanium option available). Seal-less transfer mechanism with no moving parts or O-rings means low service requirements and no regular maintenance is required. All parts are field changeable without shutting down the process and emptying the process line.



Specifications

Sensor type	Blade Consistency Transmitter
Output signal	2 -wire, 4 - 20 mA + HART®, Foundation Fieldbus and Profibus PA with optional converter
Measuring range	2 - 8 % with Standard blade 6 - 16 % with Medium consistency blade 2 - 3 % with Low consistency blade 2 - 8 % with Recycled unscreened blade
Sensitivity	Better than 0.01 % Cs
Process pressure	Max. 25 bar
Process temperature	0 - 120 °C
Ambient temperature	0 - 65 °C
Storage temperature	-50...+80 °C
Flow velocity	0.5 - 5 m/s Standard blade 0.5 - 8 m/s Medium consistency blade 0.5 - 5 m/s Low consistency blade 0.5 - 5 m/s Recycled unscreened blade
Weight	Transmitter 2.3 kg, Display unit 2.2 kg
Process connection	Clamp connection to NS70 mounting saddle. Saddle welded onto process pipe. All required hardware included with the transmitter.
Process pipe size	100 mm (4") diameter or larger
Materials	All wetted parts titanium or Stainless steel. Mounting gaskets PTFE, Mounting saddle SS316L, SMO, Duplex, Titanium or FRP
Low voltage & emc	IEC 6100-4-3 and CISPR 11
Enclosure class	Sensor unit IP 66 (better than NEMA 4X), Display unit IP65 (NEMA 4X),
Damping	1 - 99 sec.
Calibration	Memory for 10 samples (FIFO). Built-in calibrator.
Build in curves	Seven (7) built-in calibration curves for Softwood, Hardwood, TMP, CTMP, Groundwood, Recycled, Eucalyptus + one (1) user specific.
Binary inputs	Three (3) to select calibration curve and one (1) for sample button.

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