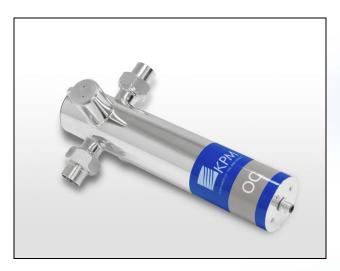


OC - OPTICAL CONSISTENCY TRANSMITTERS







KPM acquired Cerlic optical consistency transmitters

KPM offers full range of optical consistency transmitters for In-Line and By-Pass installations. Optical consistency transmitters are best choice for range 0-2%Cs. The sensor measures fibers and particles that are greater than 0.88 microns, such as stock from 0.001% (10ppm) to 5%, (depending on type of stock).

The measuring principle is based on the ability of suspended particles to absorb and reflect / transmit NIR-light (near infrared), which is pulsed at 880 nm.

Robust design in SS316 steel

The OC sensors are constructed of 316SS with sapphire glass lenses, to withstand the most aggressive media. Sensor Pressure class in PN25 for by pass sensors and PN16 for In-Line sensors.

OC In-line Sensors

The OC 20/70 can be installed directly to process pipe similar way like blade type consistency transmitters.

OC By-Pass sensors

The by-pass Consistency Sensors are developed to measure fiber consistency in liquids from 0,001 – 2%. The OC-P03/20 has polarizing measurement making it suitable for paper machine retention measurement, where is variation in ash content. The sensors have a 20 mm (P03/20 3 mm) gap between the lenses, which produces a self-cleaning effect due to the increased velocity. and 20/25-LC for Mill effluents.

Remote Display unit for easy set up

The sensors are pre-calibrated for quick and easy start up. After installation, one-point adjustment is performed against a laboratory test.

The Display unit has four selectable calibration curves for applications with varying furnishes.

SPECIFICATIONS									
SENSOR TYPE	Optical Consistency Transmitter								
OUTPUT SIGNAL	Analog Outputs 4 - 20 mA								
BINARY INPUTS	24 VDC, Process Stop, Grade Change (2) and Sampler Input								
BINARY OUTPUT	2 x Closing or opening contact max. 250 VAC, 2A; 220VDC, 2 A For Alarm and flushing control								
MEASUREMENT RANGE &	OC 20/25	OC 20/25-K	OC 20/25-LC	OC 20/50	OC P3/25	OC IL 20/70	OC IL 20/		OC _ 20/38-HP
PROCESS TEMPERATURE& MINIMUM FLOW VELOCITY&	0 – 2%	0-5%	0 - 0,02%	0 – 5%	0 – 1,5 %		0 - 5%		- 5%
PRESSURE CLASS	90 °C	90 °C	50 °C	90 °C	60 °C	90 °C	90 °C	1	00 °C
PROCESS CONNECTION	20 I / min	20 I / min	20 I / min	60 I / min	10 I / min	Cs<1% 1m/s Cs>1% 1.5m			s<1% 1m/s s>1% 1.5m/s
	PN25	PN25	PN25	PN25	PN25	PN16	PN16		N16
	By-pass line 25mm	By-pass line 25mm	By-pass line 25mm	By-pass line 50mm	By-pass line 25mm	NS70 saddle	NS70	v	N50 Ball alve and reld stud
APPLICATIONS	OC 20/xx models only clean pulps								
MINIMUM CONSISTENCY	0.001 %, 10 ppm								
PROCESS PRESSURE	Minimum 1 bar (15 psi);								
AMBIENT TEMPERATURE	Sensor, 0 - 60°C (32 - 140°F); Display Unit = - 10 - 60°C (-14140°F)								
CABLING	10 m interconnect cable from Sensor to Display Unit								
WETTED MATERIALS	AISI316								
WEIGHT	Display Unit	OC 20/25	OC 20/25-K	OC 20/25-LC	OC 20/50		DC L 20/70	OC IL20/70-S	OC E IL20/38-HP
	2.3 kg 5,1 lbs	3.0 kg 6.6 lbs	3.0 kg 6.6 lbs	3.0 kg 6.6 lbs	3.7 kg 8.2 lbs		3.7 kg 3.2 lbs	1.5 kg 3.3 lbs	7.0 kg 15.4 lbs
CONFORMANCE	73/23/EEC, 89/336/EEC, EN 61000-6-4:2001, EN 61000-6-2:2001, EN 61010-1:2001								
ENCLOSURE CLASS	IP65, Nema 4X								

86 to 264 VAC, 47 - 63Hz; 20VA

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POWER SUPPLY

The OC products are manufactured by Kajaani Process Measurements Ltd and Cerlic AB, Sweden

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