

# MICROWAVE TS METER TRUE-PHASE TECHNOLOGY



- Single point calibration
- Low installation and lifetime costs
- Reliable & accurate
- Not affected by process or media changes
- Easy to use display
- Wide TS concentration range
- Automatic recovery after empty pipe

## CMC TS-METER

The CMC high concentration total solids meter is an excellent tool for continuous online TS concentration measurement in WWTP and biosolids applications. Common applications are thickened sludge prior to digesters, anaerobic sludge to centrifuges, primary clarifier sludge to obtain polymer dosing savings or better process control. The reliable and well tested measuring principle of microwave true-phase

technology which utilizes 5 frequency's to achieve higher accuracy and automatic recovery after an empty pipe situation. True -Phase technology used in the CMC has proven to offer high measurement accuracy over a wide range of TS concentrations. The rugged design with no moving parts insures high reliability and minimum maintenance. The microwave sensor is available in 3" – 12" sizes (DN 80 – DN300).

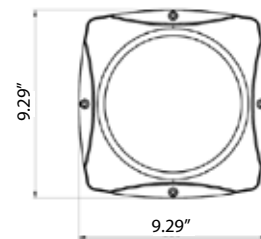
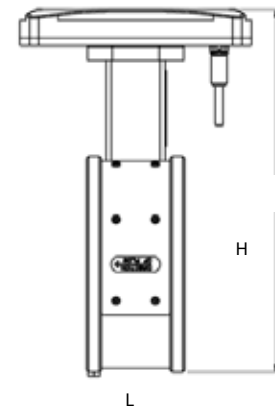
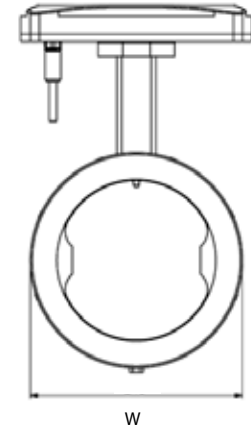
### TECHNICAL SPECIFICATIONS

#### Measurement

Range	>35% Total Solids
Repeatability	0.01 % TS
Resolution	0.001% TS for all sizes
Sensor type	Microwave TS True Phase (5 frequency's) transmitter
Sensor Material	316L SS, Window – Ceramic, NEMA 4X (IP66)
Control Box	ABS Plastic, Nema 4X (IP66)
Approvals	EMC, CE, PED
Output Signal	2 x analog outputs, 4-20 mA or Hart
Alarm Outputs	12-48 VDC, max. 10 mA, dry contact

#### Installation requirements

Installation	Wafer Design installed between flanges (supplied by customer)	
Length	3.94" F/F (100 mm) for all sizes	
Process Temp	32 – 158°F (0 - 70°C)	
Process Pressure	Max – 253 psig (PN 16) Min – 22 psig (PN1.5), no air allowed	
Process pH	2.5 - 11.5 pH	
Ambient Temp	Sensor & Display 32 – 140°F (0 - 60°C)	
Flow Velocity	Not Flow Sensitive	
Power Supply	86-264 VAC, 47-63 Hz, 20 VA	
Conductivity	CMC 80 (3")	< 25 mS/cm
	CMC 100 & 150 (4" – 6")	< 20 mS/cm
	CMC 200, 250 & 300 (8", 10" & 12")	< 15 mS/cm



Size	H	W	L	Weight - sensor
CMC 80 (3")	11.22" (285mm)	5.43" (138mm)	3.94" (100mm)	22# (10 kg)
CMC 100 (4")	12.09" (307mm)	6.30" (160mm)	3.94" (100mm)	27# (12 kg)
CMC 150 (6")	14.29" (363mm)	8.50" (216mm)	3.94" (100mm)	34# (16 kg)
CMC 200 (8")	16.42" (417mm)	10.63" (270mm)	3.94" (100mm)	44# (20 kg)
CMC 250 (10")	18.39" (467mm)	12.6" (320mm)	3.94" (100mm)	55# (25 kg)
CMC 300 (12")	20.51" (521mm)	14.72" (374mm)	3.94" (100mm)	66# (30 kg)

## CMC



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