# Conductivity Sensor TCon

80S400000 · 80S400010



Digital sensor to measure conductive conductivity especially in pure media, for operation on TriBox controllers and HS100 DIN rail module. The digital technology ensures secure and interference-free signal transmission from the sensor to the controller. TCon is available with a 10 m or a 2 m fixed cable.

### **Benefits**

- Reliable conductivity measurement with two conductive graphite electrodes and temperature compensation
- · PVC sensor housing and graphite electrodes
- · No mechanically moving parts
- · Immediate installation and easy maintenance
- Modbus RTU digital communication protocol

## **Applications**

- Measurement of conductivity in the outflow of wastewater treatment plants
- Measurement of conductivity in industrial and water circuits

### Accessories

- Cable: Extension cables of 0.3 m, 2 m, 10 m, 25 m
- Controller: TriBox3, TriBox Mini, HS100
- · Fittings: FlowCell

## **Technical Specifications**

Measurement technology	conductive with 2 graphite	
	electrodes	
Measurement principle	Conductometry	
Parameter	Conductivity, temperature	
Measuring range	020000 μS	
Measurement accuracy	± 1 μS	
Temperature compensation	Pt1000	
Response time	95 % of value in 10 sec	
T100 response time	10 s	
Measurement interval	5 s	
Housing material	PPS / PET / NBR	
Dimensions (L x Ø)	180 x 27 mm ~ 7.1" x 1.1"	
Interface	RS-485, Modbus RTU	
Power consumption	0.2 W	
Power supply	1224 VDC (± 10 %)	
Connector	8-pin M12-plug	

Maintenance effort	≤ 0.5 h/month (typical)	
Calibration/mainte- nance interval	4 weeks	
System compatibility	Modbus RTU	
Warranty	1 Year (EU: 2 years) on elec- tronics; All wearing parts are not included in the warranty	
Max. pressure	3 bar	~ 43.5 psig
Protection type	IP68	NEMA 6P
Sample temperature	0+70 °C	~+32 °F+158 °F
Ambient temperature	0+70 °C	~+32°F+158°F
Inflow velocity	0.1 m/s	~ 0.33 fps

