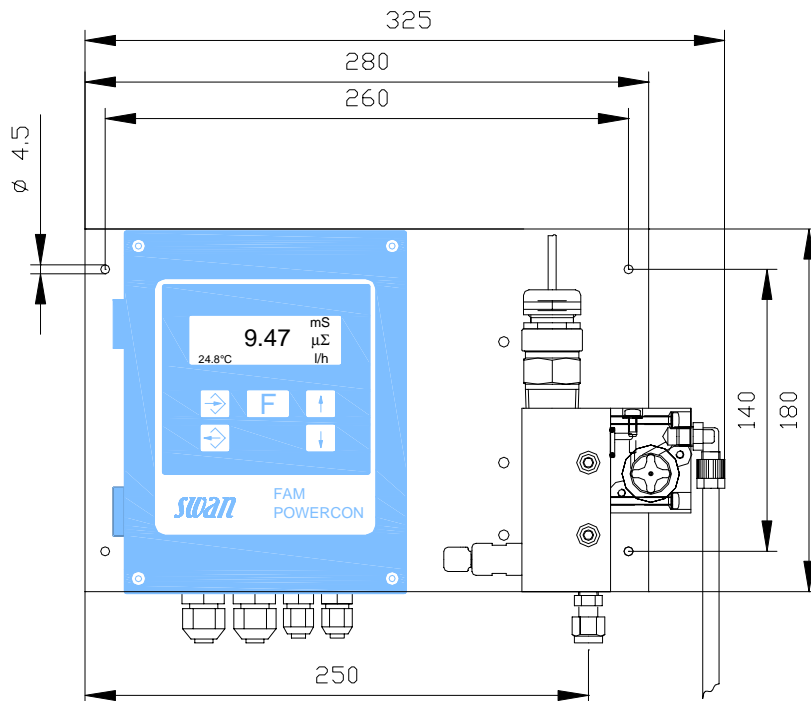


High precision portable Conductivity Monitor for the quality control of on-line instruments.

Q-Monitor FAM Powercon



- Measuring transmitter in aluminium case (IP 66) including conductivity sensor UP-CON (built-in temperature sensor) and flow cell mounted on panel.
- Big backlit LCD-Display for the reading of measuring value, temperature and operating status.
- Measuring range: 0.055 $\mu\text{S}/\text{cm}$ to 1 mS.
- Several temperature compensation curves can be chosen.
- Alarm if sample temperature too high / too low.
- Two signal outputs 0/4 - 20 mA for specific conductivity and/or temperature, galvanically separated from sensor inputs.

- Potential-free alarm contact as a summary alarm indication for instrument faults.
- Two potential-free contacts as limit switches.
- One signal input for potential-free contact, function programmable.

Options:

- Portable kit
- Quick lock coupling $\frac{1}{4}$ "

Order scheme	Q-Monitor FAM Powercon	A-23.71		4 5
Power supply:	230 VAC, 50/60 Hz		↑	↑
	115 VAC, 50/60 Hz		1	
	24 VAC, 50/60 Hz		2	
	24 VDC, direct current (isolated)		3	
	200 VAC, 50/60 Hz		4	
	100 VAC, 50/60 Hz _____		5	
Interface:	none		6	
	RS485 (PROFIBUS DP, MODBUS ASCII/RTU, SWANBUS) _____			0
				2

Technical data:

Dimensions (width x height x front-to-back size): 280 x 180 x 75 mm
Weight: 3 kg
Case electronics: Aluminium, IP 66
Ambient temperature: 5 to +50 °C
Limit range of operation: 5 to +50 °C
Storage and transport: -30 to +85 °C
Relative humidity: 10 to 90% non condensing

Data indication:

LCD backlit, 15 mm high
Connections: Strippable terminal blocks

Power supply: (±15%)

Power supply: 24, 115, 230, 200, 100 VAC / 50/60 Hz or direct current 24 VDC (isolated)
Power consumption: max. 7 VA
Parameter storage without battery

1 Alarm relay:

Potential-free contact
Max. load: 1A / 250 VAC
Summary alarm indication for instrument fault and alarm values

1 Interface (option):

RS485 with PROFIBUS DP according to DIN 19245 part 3 or MODBUS ASCII or MODBUS RTU or SWANBUS

Monitoring of case temperature:

Alarm if temperature is higher than +65 °C or lower than -25 °C

2 Signal outputs:

Current loop: 0/4 20 mA
Max. burden: 510 Ω
Galvanically separated from sensor inputs. Not separated between each other. Span freely scaleable

2 Relays:

Two potential-free contacts programmable as
- limit switches for measuring value
- limit switches for temperature
- flow alarm high and low
- timer with automatic hold function
Max. load: 1A / 250 VAC

1 Input:

For potential-free contact.
Programmable:
- as hold
- as remote-off

Flow measurement:

Display of sample flow in l/h at the FAM.
Alarm if flow too low / too high.
Meas. range: 0 to 25 l/h

Meas. cell / sample requirements:

Flow cell made of stainless steel SS316L
Sample inlet: Swagelok connection for tube ¼"
Sample outlet: flexible tube 4x6 mm
Pressure-free outlet necessary
max. tube length: 1.5 m
Sample flow: 5 to 20 l/h
Sample pressure: 0.2 to 2 bar
Temperature: max. 50 °C
No sand, no oil

Conductivity measurement:

2 signal inputs (galvanically separated) for Swansensor UP-CON with built-in temp. sensor NT5K
Meas. range: 0.055 µS/cm to 1 mS
Accuracy: ±1% of meas. value

Temperature compensation:

Non linear for high purity water, neutral salts, strong acids, strong bases, NH₃, ethanolamine, morpholine, or linear with coefficient.

Temperature measurement:

Meas. range: -30 to +130 °C
Resolution: 0.1 °C
Alarm at too low / too high sample temperature.

Connection scheme

