

Valmet Portable Conductivity Measurement

Series 3000





The Portable Conductivity TCU

The portable series 3000 is a reference transmitter for conductivity and/or concentration measurements. Four (4) individual set-up modes are available, each with a complete recipe and individual setting of output range and calibration.

Technical data

- Conductivity measurement range: 55 nS/cm to 1000 mS/cm
- Accuracy: +-0.25 %
 (0.5 % of reading from 10 μS/cm to
 0.055 μS/cm +2 ± 1 nS/cm)
- Sampling rate: 3 samples/sec.
- Built-in temperature compensations for UPW, std. Salt, lye or acid.
- Temperature measuring range: -40 °C to +250 °C by using sensor with built-in Pt 1000 4-wire interface
- Display: LCD
- Backlight: ON/OFF
- Two (2) analog outputs for external datalogger.

Enclosure

- Casted aluminium case
- Protection class: IP 65/DIN EN 60529
- Power supply: One (1) industrial LI-ion
- Battery endurance: Approx. 150
 hours of operation with backlight
 turned off. Approx. 30 hours with
 backlight turned on.
- Battery charging time: Primary 3 hours, USB 5 hours
- Battery charger: Mini USB port or primary, Primary: 100-240 V ~ 50/60 Hz 5 VA 100 mA, Dimensions: 65 x 40 x 35 mm (weight: 0.1 kg)







TCU types

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TCU Type	Setup 1	Setup 2	Setup 3	Setup 4
3001	UPW	UPW	STD	STD
	Conductivity	Conductivity	Conductivity	Conductivity
3003	UPW	STD	Concentration	Concentration
	Conductivity	Conductivity		

Valmet flow sensor 4049 (UPW)



Technical data

- Materials: PTFE, EPDM, silicone rubber and W1.4404 (AISI 316L) steel.
- Flow chamber: W 1.4404 (AISI 316L) steel.
- Maximum: 2 bar at 100 °C
- Range: From 2000 to 0.055 μ S/cm cable
- Calibration points: 0.1 μS/cm, 5 μS/cm, 150 μS/cm
- Sensor cable: 1 meter
- Weight: 0.7 kg

NOTE:

Cannot be used without the flow chamber.

Valmet conductivity sensor 4043 (high condcutivity)



Technical data

- Materials: PVDF, EPDM, silicone rubber.
- W1.4404 (AISI 316L) steel and DU-RAN[®] Borosilicate glass 3.3
- Maximum: 2 bar at 100 °C
- Range: From to 200 000 to 0.5 μS/cm
- Calibration points: 100 μS/cm, 10 mS/cm, 200 mS/cm
- Sensor cable: 1 meter
- Weight: 0.5 kg

NOTE:

Calibrated in flow chamber. If used without flow chamber, a cell constant correction is required.

Carrying case 369 for second sensor



Carrying case 349 for TCU, sensor,datalogger and charger



Valmet sensor 4039 for strong acids



Technical data

- Materials: PTFE and W 1.4404 (AISI 316L) steel. Electrodes of platinum.
- Max.: 12 bar at 120 °C
- Range: From 2000 to 0.1 mS/cm
- Calibration points: 10 mS/cm, 100 mS/cm, 500 mS/cm
- Cable: 1 meterWeight: 2.0 kg

Valmet dip sensor 4029



Technical data

- Materials: PTFE, EPDM, silicone rubber and W1.4404 (AISI 316L) steel.
- Maximum: 25 bar at 210 °C
- Range: From to 2000 to 0.055 μS/cm
- Calibration points: 0.1 μS/cm, 5 μS/cm, 150 μS/cm.
- Sensor cable: 1 meter
- Weight: 0.7 kg

Data logger 378



PVDF flow chamber 76



COMPLETE KITS

Type 3011 - Low conductivity kit

TCU 3001 and charger

Carrying case 349

Sensor 4049

Datalogger 378

Type 3012 - High conductivity kit

TCU 3001 and charger

Carrying case 349

Flow chamber 74

Sensor 4043

Datalogger 378

Type 3013 - Concentration kit

TCU 3003 and charger

Carrying case 349

Sensor 4039

Flow chamber 76

Datalogger 378



With Valmet Portable Conductivity, you are well prepared for anything, anywhere...

Accurate control of conductivity measurement

Rugged portable conductivity measurement kit for calibration or verification of conductivity or concentration results. The instruments can be carried in an aluminum case to contain sensor, flow chamber, battery charger and datalogger. Measuring with or without temperature compensation in all ranges. For the verification of process water and ultrapure water, the instrument can be factory-calibrated in 3-5 points with traceability to international standards. The Valmet Portable Conductivity Measurement is designed for use at on-site locations or for laboratory.

- Designed for industrial environments
- Protection class: IP 65/ DIN EN 60529
- Easy to carry arround and operate
- Flexible handle
- Stand alone datalogger with LCD display
- Auto powersave at battery low
- Charge from any USB port

