



TI-P403-25  
AB Issue 5

## MS1 Conductivity Meter

### Description

The Spirax Sarco MS1 is a battery powered conductivity meter designed for use with liquids. It is particularly suitable for measuring the conductivity of boiler water, feedwater, or condensate samples in order to estimate the level of Total Dissolved Solids, or TDS.

The instrument is fitted with a permanently wired carbon electrode sensor with integral temperature sensor.

A plug-in extension lead is also provided to allow ac resistance measurements to be made on installed conductivity probes in order to check their condition. Calibration to a master instrument or standard solution is possible using the adjustment screw on the side of the case. The instrument is supplied in a protective wallet.

### Principal features:

- Automatic temperature compensation.
- Wide selectable range.
- Automatic switch-off.

### Limiting conditions

Maximum recommended sensor operating temperature 45°C.

### Specification

	0 to 1.999 $\mu\text{S}/\text{cm}$
<b>Ranges</b>	0 to 19.99 $\mu\text{S}/\text{cm}$
	0 to 199.9 $\mu\text{S}/\text{cm}$
<b>Range indication</b>	Decimal point and LED above selection key
<b>Temperature compensation</b>	Automatic, 2% / °C
	Reference temperature 25°C
<b>Resolution</b>	0.1 $\mu\text{S}/\text{cm}$
<b>Accuracy</b>	$\pm 1.5\%$ or $\pm 3$ digits (whichever is greatest) at 25°C
<b>Calibration range</b>	$\pm 20\%$ . 20 turns (approximately)
<b>On/off</b>	Auto-off timer
<b>Sensor</b>	PVC cell with carbon electrodes
<b>Extension cable</b>	Twin core 3.5 mm jack plug and crocodile clips
<b>Battery</b>	PP3 or equivalent A low battery warning indicator is fitted

### Dimensions/weight (approximate) in mm and kg

<b>Instrument</b>	80 x 147 x 39
<b>Sensor</b>	140 x 21 diameter
<b>Sensor cable</b>	1000
<b>Extension cable</b>	1000
<b>Weight</b>	430 g with case

### How to order

Example: 1 off Spirax Sarco MS1 conductivity meter.

