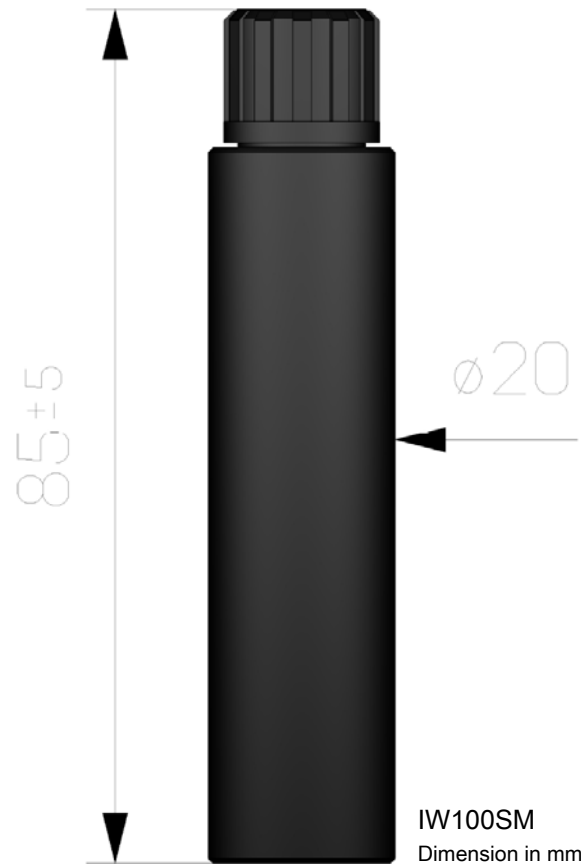


IW100SM

pH and ORP Pre-amplifier



Pre-amplifiers are ideal for monitoring pH or ORP at remote sites. The low impedance voltage signal produced by the pre-amplifier can be sent over long distances to a controller, a meter, recorder, data logger, or computer interface. The pre-amplifier needs no external power supply and can be connected directly on the top of a pH or ORP electrode equipped with a S7/S8 plug head connection system. Thus the pre-amplifier is a common unit with the electrode. Pre-amplifier with a built-in permanent battery eliminates the needs for special shielded measuring cable and is less susceptible to noise pickup.

Application	Pre-amplifier for pH/redox(ORP) electrodes
Dimension	length 85 mm, Ø 20 mm
Weight	40 g
Operating temperature	-10...60 °C
Internal power	internal Li-battery (not exchangeable)
Operation time	<ul style="list-style-type: none"> ▪ about 5 years if external load > 100 kΩ and at ambient temperature of about 25 °C ▪ heavy temperature changes during operation and storage may reduce operation time
Electrical connection	<ul style="list-style-type: none"> ▪ S7/S8 coaxial plug head ▪ cable socket
Transmission range	± 1000 mV (gain 1)
Input impedance	≤ 1000 MΩ
External load	> 100 kΩ
Offset voltage	≤ 5 mV typical
Linearity error	< 1 %

- Accompanying plug head cable connections:
 - K43/2: coaxial cable, length 2 m with S7/S8 socket, without meter plug