

PH & Temperature Meter

Model 2335

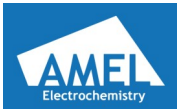
Table of Contents

1	General Description.....	1
2	Metrological Properties.....	2
2.1	Interface.....	2
2.2	Power Supply and Dimensions.....	2
2.3	Customization – Null Resistance Ammeter.....	2
3	Accessories and Spare Parts.....	2



1 General Description

Model 2335 is the new digital pH meter by AMEL, offering a completely new level of quality, accuracy and reliability, typical features of AMEL's equipment. The newly developed microprocessor offers many key features, among which simplicity of use, flexibility, unrivalled performances and exceptional price to quality ratio. Model 2335 offers high performances in any application, both in laboratories and industrial applications. The large display provides the user with complete control of all parameters and the intuitive keyboard allows for quick operations and calibrations. USB connection and software are provided to exchange data with computer and printer.



2 Metrological Properties

pH	-2,000 to 16,000pH	($\pm 0,001$ pH ± 3 digit Resolution)	($\pm 0,005$ pH Accuracy)
mV	-2000,00 to +2000,00mV	($\pm 0,1$ mV ± 2 digit Resolution)	($\pm 0,2$ mV Accuracy)
Current	-2,000 to +2,0000mA	($\pm 0,1$ μ A Resolution)	($\pm 0,5\%$ Full Scale Accuracy)
Temperature	-20,0 to +120,0°C	($\pm 0,1$ °C Resolution)	($\pm 0,2$ °C upon PT1000 class)
Input Impedance	> $10^{12}\Omega$		
Bias Current	< 2pA at 25°C		
Temperature Sensor	PT1000		

2.1 Interface

Display	2x 20 characters backlight LCD
Keyboard	8-keys
Calibration Menu	Microprocessor-based system with step-through menu
Communication Interface	USB 1.0 (COM port simulation)

2.2 Power Supply and Dimensions

Voltage Mains	100 to 240V AV	$\pm 10\%$	50/60Hz
Power Consumption	10W maximum		
Dimensions (L x W x H)	220 x 210 x 120mm		
Weight	1,8kg		

2.3 Customization – Null Resistance Ammeter

The instrument can be modified in order to operate as a Null Resistance Ammeter working in different measuring ranges.

Measurement Range	-2,0000 to +2,0000mA	($\pm 0,1$ μ A Resolution)	($\pm 0,5\%$ Full Scale Accuracy)
	-20,000 to +20,000mA	(± 1 μ A Resolution)	($\pm 0,5\%$ Full Scale Accuracy)



3 Accessories and Spare Parts

The following pH electrodes and temperature probes can be used with Model 2335 pH and Temperature Meter, please refer to AMEL's pH electrodes and temperature probes catalogues for drawings and dimensions.

211/SGG/12	pH sensitive membrane, 12mm glass body
411/CGG/12	Combined electrode for pH measurement, 12mm glass body
411/CGG/6	Combined electrode for pH measurement, 6mm glass body
411/CGG/6JZ	Combined electrode for pH measurement, 6mm short glass body & NS6 joint
401/PM3/12	Combined electrode for pH measurement, 12mm glass body, triple frit
421/CGP/12	Combined electrode for pH measurement, 12mm plastic body
411/TGG/12	Combined electrode for pH measurement, 12mm glass body, double salt bridge
405/DXK/12	Combined electrode for pH measurement, 12mm glass body, gel electrolyte
194	Glass cell for flow measurements
PT1000	Temperature probe with glass body
PT1000/P	Temperature probe with plastic body

Few replacements are needed for everyday use and maintenance of the Model 2131.

9811	Saturated KCl solution 250mL
9813	1M KNO ₃ solution 250mL
9848	Friscolyt-B solution for argenthal electrodes
9863	4,01pH buffer solution 250mL
9865	7,00pH buffer solution 250mL
9866	9,21pH buffer solution 250mL
191/USB	USB cable
191/SUPS9	Power supply for single unit
391/STB	Three electrodes flexible arm holder