

PET-PH

PH READER FOR PET QUALITY CONTROL

FAST, EASY AND RELIABLE PH MEASUREMENT FOR RADIO-PHARMACEUTICAL SOLUTION

- AUTOMATIC FULLCHECK DEVICE TEST
- SMALL VOLUME PH-METER-PROBE
- PROTOCOL FOR QM-DOCUMENTATION ACCORDING TO ISO 9000 AND GLP
- RS 232 C INTERFACE FOR CENTRAL RECORDING ON RAPHAELA



Fullcheck automatically checks the device functions during power on. Also during operation a complete instrument check can be carried out with a single key stroke. Display and keypad are checked besides the electrical characteristics.

Sensoface checks the electrode and provides information on the electrode condition. The zero, slope, response time and glass impedance of the electrode as well as the calibration interval are evaluated.

Calimatic automatically recognizes the right buffer. It allows calibration at the stroke of a key, providing ease of use and - above all - safety.

Trueline delivers a calibrated analog recorder signal, of course electrically isolated. This provides you with a true pH signal, calibrated for the electrode and without disturbing quantizing levels, permitting undistorted recording of pH curves.

Technical specifications

Equipment:	Meter with power cord, separate electrode
Ranges:	pH: -2.00 ... +16 , mV -19999 ...+19999, dC -50,0 ... +150,0
Display:	Alphanumeric 2 x 4 digits , 14 segment LED, 13 mm high characters
Measurement symbols	pH, °C / man,
Indicators:	3 Sensoface status indicators inform about condition of electrode, equipment
Measuring cycle:	Approx. 1 / sec
Accuracy:	pH: > 0,01 , mV: < 0,1 %+/- 0,3 mV, dC: < 0,3 K
Input:	DIN 19262, resistance: > 1 x 10exp-12 Ohm, current(20°C): > 1 x 10exp-12 A
Temperature coeff.:	< 0,1 count/K
Electrode standard.:	Calimatic, automatic calibration and buffer recognition for buffer sets
Permitted calibration ranges:	Zero. pH 6 ...8 , slope 47...61 mV / pH (25°C)
Electrode monitoring:	Sensoface , evaluates zero, slope, response time and glass impedance of electrode as well as the calibration interval, electrode condition displayed as good, average, poor r (can be disabled)
Cal. timer:	Monitors the calibration interval
Fullcheck:	Tests complete measurement electronics incl. analog output, segment, keypad test in diagnostic mode, automatic short check at power on
Records:	Parameter setting, calibration, diagnostics, QM documentation to ISO 9000 and GLP, retrievable in diagnostics mode or via interface
Displaymatic:	Digit suppression according to signal change, can be disabled
Temperature comp.:	Pt 100 / Pt 1000, automatic selection, manual. -50 - +150°C
Dead stop current:	- 10 µA
Recorder output:	Galvanically isolated, mV: 1 mV/mV , pH: 100 mV/pH, dC: 10 mV/dC
Interface:	RS232 without control lines, galvanically isolated, for printer or PC
Software:	Control of model 765 pH meter is integrated in the automation software for lab meters "labworldsoft" for display and control of device functions for for standard printer with serial port, printing at keystroke, via print interval time 0.1 ...999.9 min or external floating contact
printer control:	Real time clock with date, self-contained, reserve power >1 year (battery backed)
Clock:	Automatic storage of calibration data, self contained
Calibration storage:	Parameters, statistics, factor settings: > 10 years (EEPROM)
Data retention:	Storage of zero and slope of first calibration as well as data of the last 3 calibrations with time and date stamp, self contained output via interface to printer or PC
Electrode statistics:	Against electrical shock, protective separation as defined in DIN 57100 VDE 0100 part 410 and DIN VDE 0106 part 101 power supply against all other inputs in accordance with the NAMUR recommendation "extra low voltage circuits with protective separations"
Protection:	89/336/EEC
EMC directive:	EN 61326, VDE 0843 part 20: 2002-3
Standards:	0 ... 45° C
Ambient temperature:	-20 ... + 70° C
Storage:	230V - 15 % + 10 % , 48 - 62 Hz, < 10 VA
Power supply:	II
Protection class:	

Physical specifications

Dimensions:	244 x 95 x 255 mm
weight:	2 kg



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