Polymetron 9240 Sodium analyser, Standard, panel version, 1 channel

Product #: **09240=A=0001**

OBSOLETE ITEM
This item is no longer available.

Suggested replacements:
- LXV526.98.2111A

Low level sodium measurement in high purity water.

One channel Standard version with panel. Measuring range 0 - 10000 ppb (detection limit 0.01 ppb).

The easy to install sodium analyser integrates one to four channels to optimise rinsing sequences. Set up is managed through the readily accessible controller that has clear messages guiding the user through menus and sub menus. The analyser uses an auto-adapted rinsing sequence with a cycle time of 10 or more minutes.

To maintain optimum response time, even in systems of continuous low sodium concentration, the analyser provides automatic electrode reactivation. Reactivation uses non-hazardous chemicals and eliminates the need for manual reactivation or electrode etching.

Low maintenance
Maintenance of the 9240 analyser requires reagent replenishment only every 100 days and annual replacement of reagent tubing and the sodium electrode. Clear step-by-step instructions are provided to simplify maintenance operations.

Automatic electrode reactivation optimises operation and response time
To maintain optimum response time, even in systems of continuous low sodium concentration, the 9240 analyser provides automatic electrode reactivation. Reactivation uses non-hazardous chemicals and eliminates the need for manual reactivation or electrode etching.

Easy to operate and maintain with automatic calibration
Fully automatic calibration of the 9240 analyser avoids risk of contamination or human error. The system follows a multiple calibration step cycle to eliminate user variability and possible sample contamination. A convenient grab sample feature allows the user to check operation or measurement of a one-off process sample to reduce laboratory time. Unlike other analysers, a manual sample (250 mL) can be introduced without disconnecting any tubes. After sampling, the analyser automatically returns to on-line monitoring.

Data and diagnostics
The system displays comprehensive information for each sample stream. A built-in data logger captures measurement readings, calibration results and alarm information for future access. A step-by-step menu and submenu guides the user through all configuration, maintenance, and troubleshooting.

Specifications

Acidity:	Standard: <50 ppm Using Kit K: <250 ppm (equivalent $CaCO_3$)
Altitude:	<2000 m
Ambient temperature:	5 - 50 °C
Analogue outputs:	6 x 0/4 to 20 mA [800 Ohms] linear, dual or logarithm with event indication
Calibration method:	Automatic with known addition: 3 points

	Manual: 1 or 2 points
Communication capabilities:	Standard (4x 4-20 mA outputs)
Depth panel:	252.5 mm
Detection limit:	DIPA: 0.01 ppb
	NH_3: 2 ppb
Display:	Digital, 75 x 75 mm graphic with LED backlighting
	Concentration, trend curves, diagnostics, alarm status, calibration constants, historical data
Electrode type:	pH glass electrode
European standards for EMC:	EN 61326-1:2006, EN 61010-1:2001
European standards for low voltage safety:	EN601010-1 (2001) for low voltage safety
Flow rate:	5 L/h during sampling phase
Fuse:	5x20 cartridge T2AL-250 V following CEI127
Height (panel):	850 mm
Inlet:	Simple fittings for 6 mm OD tubing or ¼" OD in PE-low density. ¼" OD in PHED-PTFE-SS as option
Interference:	≤ 0.1 ppb
International standards:	U. L. and GOST Metrology
Load:	650 Ohm
Maintenance interval:	Every 100 days: refill electrolyte, reagents, and calibration solution (using DIPA)
Material:	Measuring Cell: PMMA
Max. concentration of suspended solids in sample:	<10 ppm / <2 NTU, no oil, no grease. For boiler sample type, install approx. 100 µm filter
Measurement Category:	Cat II, Class 1 (overvoltage <1500 V)
Measuring range:	0 - 10.000 ppb freely programmable;
	0 - 200 ppm with K-kit option
Mounting:	Panel mount
Number of analog outputs:	6
Number of channels:	1
Number of relays:	4 programmable (concentration, temperature, minimum sample flow rate)
Outlet:	Barbed stem for 12 mm (½") ID hose
Outputs:	2 (according to standard EN 61010-1)
Parameter:	Sodium
pH Range:	6 - 10 pH
	Cationic application (using K-kit): 2 - 10 pH
Power requirements (Hz):	50 - 60 Hz
Power requirements (Voltage):	100 - 240 V AC
Protection rating:	Transmitter: IP 65 (NEMA 4)
	Panel: IP50 (dust protection)
	Enclosure: IP54 (splash water proof)
Relative humidity:	10 - 80 %
Relay output:	30 V DC, 0.5 A maximum
Repeatability:	DIPA: < 0.02 ppb or 1.5 % of reading (whichever is greater), within 10 °C variation

	NH_3: < 0.1 ppb or 1.5% reading (whichever is greater), within 10 °C variation
Response time:	1 cycle, minimum 10 minutes
Sample conditioner:	Di-isopropylamine (1 L/100 days), recommended
	or
	NH_3 (2.5 L/90 days)
Sample pressure:	0.2 - 6 bar
Sample temperature:	5 - 45°C (41 - 113°F)
Storage conditions:	-20 °C - 60 °C
User interface:	Menu driven operation and clear messages in 5 languages
Weight:	Empty canisters: 18 kg
	Full canisters: 20 kg
Width:	450 mm