Polilyte Plus ORP Arc 120

Specification Sheet (Part/REF # 243060)

All the advantages of the Polilyte Plus family with polymer reference to eliminate clogging and poisoning are included. Arc technology allows direct communication with the Process Control System.

Product Specifications

Sensor Family	Polilyte Plus
Parameter	ORP
Sensor Output	Arc: Modbus, 4 to 20 mA
a-length	120 mm
Electrical Connector	VP8
Measurement Principle	Combination electrode; ORP potential measured against reference
Measuring Range	-1500 mV to +1500 mV
ORP Element	Pt wire
Membrane Shape	Spherical
Diaphragm	Single Pore
Number of Diaphragms	2
Electrolyte	Polisolve Plus
Reference System	Hamilton Everef-L
Liquid Earth	Yes
Temperature Sensor	NTC 22 kOhm
Configurable Values	ORP: mV; Temperature: °C, K, °F
Diameter	12 mm
Process Connection	PG13,5
Wetted Parts	Platinum Glass FKM (Fluorocarbon Elastomer)
Analog Interface 1	4 to 20 mA, programmable
Analog Interface 2	4 to 20 mA for Temp., programmable
Analog Interface 1 and 2	Galvanically not isolated; pulse width modulation 3.5 kHz
Digital Interface	RS485 Modbus (max. 31 addresses)
Baud Rate	4800, 9600, 19200, 38400, 57600,115200 Bd
Operating Voltage	7 to 30 VDC max. 150 mW
Serial Number	Yes
Recommended Storage	Hamilton Storage Solution or 3 M KCl
Certificate	Yes, with measured value in ORP buffer +475 mV

ATEX Approval	No
IECEx Approval	No
Autoclavable	Yes, max. Temperature 130 °C
CIP	No
Steam Sterilizable	Yes, max. Temperature 140 °C
Operating Temperature Range	Analog interface: 0 to 110 °C; Digital interface: 0 to 140 °C
Sample min Conductivity	2 µS/cm
Pressure Range bar g	0 to 16 bar (100 °C), 0 to 10 bar (130 °C), 0 to 3 bar (140 °C)