

LDO 3400-170, LDO 4400-170 Module Specifications

Input for sensor	SE 740 optical oxygen sensor		
Measuring ranges	Saturation	0.0 ... 999.9 % Air	(-10 ... 80 °C / 14 ... 176 °F)
		0.00 ... 99.99 % O ₂	
	Concentration	0.00 ... 99.99 mg/l (ppm)	(-10 ... 80 °C / 14 ... 176 °F)
	Volume concentration in gas	0.00 ... 99.99 vol%	
Pressure correction	Partial pressure	0 ... 9,999 mbar	
	Manual	0 ... 9,999 mbar	
	external	0 ... 9,999 mbar	(via current input 0(4) ... 20 mA input)
Salinity correction	0.0 ... 45.0 g/kg		
Sensor monitoring ^{*)}	Sensocheck, sensor monitoring		
Sensoface	Provides information on the condition of the sensor		
Sensor diagram	Zero point, slope, calibration interval, Sensocheck, wear		
Sensor monitor	Direct display of measured values from sensor for validation: partial pressure / temperature / I input		
Wear monitor	Display of wear parameters: sensor wear / sensor operating time / autoclaving cycles / SIP cycles / CIP cycles		
Sensor adjustment ^{*)}	Operating modes – Automatic calibration in air-saturated water – Automatic calibration in air – Product calibration: saturation – Product calibration: concentration and partial pressure – Zero correction		
Calibration record	Recording of: Zero point, slope, calibration procedure with date and time for last three calibrations and first calibration		
Temperature input	Measuring range	-10 ... 130 °C (14 ... 266 °F)	
	Resolution	0.1 °C/°F	
	Measurement error ^{**)}	0.2 % of measured value + 0.5 K (< 1K at T > 100 °C / 212 °F)	
Current input	0(4) ... 20 mA for absolute or differential pressure transmitter		
	Pressure range	0 ... 9,999 mbar	
	Current Range	0(4) ... 20 mA / 50 Ω	
	Start / end	Can be defined by the user within the pressure range	
	Resolution	< 1%	
RoHS conformity	According to EU directive 2011/65/EU		
EMC	NAMUR NE 21 and EN 61326-1, EN 61326-2-3		
	Emitted interference	Industrial applications ¹⁾ (EN 55011 Group 1 Class A)	
	Immunity to interference	Industrial applications	
	Lightning protection	According to EN 61000-4-5 Installation class 2	
Rated operating conditions	Ambient temperature:	-20 ... 55 °C / -4 ... 131 °F	
	Relative humidity:	5 ... 95 %	
	Climatic class	3K5 according to EN 60721-3-3	
	Location class	C1 according to EN 60654-1	
	Transport/storage temperature:	-20 ... 70 °C / -4 ... 158 °F	

Protos 3400 / Protos II 4400

LDO 3400-170 Module Specifications – Continued

Housing	Module enclosure	PC/ABS blend
	Color	Black
	Degree of protection	IP 20
	Dimensions (mm)	W x L x H 118 x 91 x 21
	Screw clamp connector	Single or stranded wires up to 2.5 mm ²

*) Adjustable

***) At rated operating conditions, ± 1 digit, plus sensor error

1) This equipment is not designed for domestic use, and is unable to guarantee adequate protection of the radio reception in such environments.

LDO 3400-170 Module Terminal Assignments

