METEN.NL



NIEUWKOOP

LEAFLET



ZU5100

D. OXYGEN + Pt100 SENSOR













DYSSOLVED OXYGEN CONTROLLER

Main features

Scales: PPM - mg/I - % air sat. - mmHg Autoranging

Temperature readout Dual filter software

Calibration parameters display Dual set-point and alarm conditions display

Autocalibration in air Automatic or manual temperature compensation Pressure, R.H., salinity compensation

Isolated output: • 0/20 mA or 4/20 mA selectable

programmable input on the span

Automatic or manual operation Dual set-point with hysteresis, delay, and min/max programmable functions

Alarm:

- continuous/flashing
- min/max and delay programmable
- on set-points timing

• Autoclean relay and holding function for input and outputs

EEPROM parameters storage Automatic overload protection and reset Extractable terminal block 96x96 (1/4 DIN) housing

Applications

- water treatment
- drinking water
- fish pond
- food industry
- biotechnology



SZ 654.1

Polarographic D.O. cell with built-in Pt100. 250 nA, current in air at 20 °C, temperature 0/45 °C. Epoxy body L=110 mm, D=12 mm, cable 5 m. Ship with spare membrane and electrolyte.

SZ 659.R1 spare membrane/electrolyte.

Technical Specifications in addition to those common in the series 7685 **Polarographic Cell** Low Current cell: 25/75 nA High Current cell: 140/510 nA * Polarization: 0/1250 mV **Galvanic Cell** Input: 17/51 mV Selectable scales 0/200.0 mmHg D.O. partial pressure 0/200.0 % air saturation 0/20.00 PPM 0/20.00 mg/l * Software filter 90%RT: 0.4/20.0 s for small/large variations Zero adjustment: +/- 10% Sensitivity adjustment: 80/170 % Display resolution at 20°C: 1/1000 **Secondary parameters** Pressure: 500/800 mmHg Salinity: 0/60,000 PPM Relative Humidity: 0/100 % Temperature Input: RTD Pt100 2/3 wires connection Measuring and compensation range: -2/+52 °C Resolution: ±0.1 °C Zero adjustment: ±2 °C Manual temp. comp.: 0/50 °C Options 091.3713 dual analog programmable and isolated output. The operator may select an output for temperature. 091.701 RS232 isolated output.

091.404 24Vac power supply **091.4143** 9/36VDC power supply



General information

The 7685 Series includes all of the most complete and most performing analyzers of B&C/Nieuwkoop.

They include all of the following measures:

- pH ORP
- Conductivity Resistivity
- Free residual chlorine, combined and total
- Residual chlorine dioxide
- Residual dissolved ozone
- Dissolved oxygen
- Turbidity and Suspended Solids
- Residual dissolved Sulfide/Sulfite
- ISE

All controllers are manufactured in robust aluminum enclosures DIN 43700, with front panels in polycarbonate. Their reliability and precision, along with their functionality, make them easy to use in all applications. Finally, 7685 Series guarantees one of the best performance-price ratio in the marketplace.

Common features

Selectable input.

Input from RTD Pt100 3 wires.

Temperature readout.

Dual filter software.

Operating mode: automatic and manual. Calibration parameters display.

Set-point and alarm conditions display.

Automatic or manual temperature compensation 0/20 mA or 4/20 mA programmable isolated output.

Dual set-point with hysteresis, delay and min/max programmable functions.

Min/max and set-points timing alarm relay.

Software: 3 access levels, user friendly, keyboard lock, watch-dog EEPROM parameters storage.

Automatic overload protection and reset. Extractable terminal blocks. 96X96 (1/4"DIN) housing.

Techni	cal Specifications
	n to all instruments of the 7685 Series
Tempero	ature
•	D Pt100 2/3 wires
· · ·	t A and B:
•	n: ON/OFF
Hysteresis: adjustable	
, Delay: 0.0	•
	n: Max/Min
	ntacts: SPDT 220V 5 A (resistive load)
Alarm:	· · · ·
Low/High	n: adjustable
Delay: 0.0	
	tatus: activated/deactivated
•	on max. operating time of set-point A/B: ON/OFF
	erating time of set-point A/B: 0/60 minutes
	ontacts: SPDT 220V 5 A (resistive load)
	putput N° 1
-	orresponding to the analog output (option 091.371x):
selectab	
	range: 0-20/4-20 mA (it can be made to represent
any	
•	t of the measuring scale
-	e time: 2.5 s for 98%
Isolation	
Load: 600) ohm max
Analoa	outpunt N° 2 (option 091.371x)
-	prresponding to the analog output: selectable
•	range: 0-20/4-20 mA (it can be made to represent
•	gment of the measuring scale
, ,	e time: 2.5 s for 98%
Isolation	250Vac
Load: 600) ohm max
Configu	ration (*)
-	e parameters indicated by asterisks"*", may be
	in the Configuration menu
	Specification
	meric display: 1 line x 16 characters
-	g temperature: 0/50 °C
•	r: 95% without condensation
•	10/220Vac ± 10% 50/60 Hz
	4 kV between primary and secondary (IEC 348)
Power: 5	
Terminal	block: extractable
Weight: 8	350 g
-	ons: 96 x 96 x 155 mm
Options	
091.701	RS 232 isolated output
	The output sends the data to the serial port of the
	computer.
091.404	•
091.404 091.414X	

The technical specifications could be changed without notice



TO MEASURE **TO** KNOW

Nieuwkoop BV

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