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miniCHEM-DO2

TPS Australia - Quality hand-made instruments since 1968.

miniCHEM Dissolved Oxygen Process Monitor and Controller



(miniCHEM-pH shown)

[Full Size Image](#)

- ◆ *Waterproof Enclosure*
- ◆ *Easy to Install*
- ◆ *Easy to Use*
- ◆ *4-20mA and 0-1 DC Outputs*
- ◆ *Optional Relay Output*
- ◆ *Australian Made*

3 steps to automatic control...

1. Calibrate
2. Set the control limit
3. Switch to Auto



Alarm LED

The Alarm LED provides visual indication of when the control limit is exceeded. The control limit can be set for a 'too high' or a 'too low' alarm.

Large Display

The 12.5mm LCD display is easy to read, even from a distance. Switch to **SET LIMIT** to display and set the control limit.

user-selected and are supplied as standard. 0-10V output is available as a factory fitted option.

chemical, even when the reading is within the control limit, switch to **MANUAL**. This acts as an on-off switch for the output relay.

to 2 amps at 240 V AC. The limit can be set for 'too high' or 'too low' control. Adjustable hysteresis increases control flexibility. The fuse is accessible via the terminal cover.

The all-new **miniCHEM** series are the perfect solution for many process monitoring applications.

All **miniCHEM** units are easy to install. The enclosure is waterproof to IP65, so a separate cabinet is not required. All controls can be accessed via the hinged, clear cover. The large LCD display is easy to read, even from a distance.

The **miniCHEM** series is designed for maximum flexibility. Current and voltage outputs are provided as standard. A relay output is optionally available. The front panel alarm lamp provides clear visual indication when the control limit has been exceeded.

The **miniCHEM** series is the best value for money range of process monitors available today. They are ideal for industry, swimming pools, reverse osmosis, aquaculture, and general process monitoring and control.

For even greater output flexibility, ask about the **420 ToolBox**. This module provides such features as reversing the current or voltage signal, optional second control relay, RS232 interface or pulsed output.

For a total solution to your control requirements, TPS also offers a range of peristaltic pumps.

The **miniCHEM** series is proudly designed and manufactured in Australia. The TPS Quality System has been certified in accordance with AS/NZS ISO9001 standards. You can always be assured of the best quality, service and value for money.

Specifications

Ranges

0 to 199.9 % Saturation

OR

0 to 19.99 ppm (mg/L)

(Factory-set)

Resolution

0.1 % Saturation

OR

0.01 ppm (mg/L)

Accuracy

+/-0.2% of full scale

Linearity

+/-0.1%

Enclosure

Polycarbonate, waterproof to IP65

Display

12.5mm LCD

Outputs

4 to 20 mA (500 Ohms max load)

0 to 1 V DC (0 to 10 V DC optional)

Isolation

Galvanic isolation of sensor input

Current and voltage outputs are not isolated

Repeatability

+/-0.2%

Ambient Drift

<0.05% span/°C

Long Term Drift

<0.2% per year

Temperature Compensation

Dual automatic temperature compensation system,
0 to 50 °C (sensor limit).

Zero Range

+/-10%

Span Range

70 to 130%

Sensor

Polarographic sensor with inbuilt ATC sensor.
Factory set for TPS ED1M or EDYSI dissolved oxygen sensor.

Power

220/240 V AC, 50/60Hz
(110/120 V AC available)

12V DC power optional.

Dimensions

172 x 160 x 71mm

Mass

Instrument only : Approx 800g
Full Kit : Approx 1.5kg

Instrument Operating Environment

Temperature : 0 to 45 °C
Humidity : 0 to 95% R.H.

Ordering Information

Part No
miniCHEM-DO2.....113140

Kit Includes:

Handbook.....130050

TPS ED1M DO2 sensors

(submersible to 3m max):

ED1M DO2 Sensor.....123440
(NO CABLE)
5m cable for ED1M.....123236
Extended cable/metre....130040

YSI DO2 sensor and cable:

EDYSI DO2 Sensor.....123204
(NO CABLE)
5m cable for EDYSI.....123210
Extended cable/metre....130040

Part No
Instrument Options:
Relay control output....130342
Loop-powered remote LCD.130080
12V DC Power option.....130072



[Download this Specification Sheet in PDF format.](#)



[Download the handbook for this instrument.](#)

Hint : Right click on a link, then select "Save Target As..." or "Save Link As..." to save the file to your own computer.

If you do not have Adobe Acrobat in your computer, a free Acrobat Reader can be downloaded by clicking on the following link.

TPS reserves the right to change any part of this specification without notice.

Version 2.0

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Aqua-D

Aqua-DY

WP-82

WP-82Y

90-D

smartCHEM-DO2

microCHEM-DO2

miniCHEM-DO2

88-0

Send mail to tps@tps.com.au with questions or comments about this web site.

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Last modified: March 14, 2002