



**MULTIPLE PARAMETERS**

**MultiSys: Blue Sense**



*4 and 2 channel Blue sense systems*

**Features:**

- Up to 4 sensors into one transmitter
- Available sensors: T, pH, ORP, DO, Conductivity, turbidity and all common ISE's
- Standard SD card for data logging
- Touch Screen operation
- Displays current values and Bar Graphs
- Good connectivity

**Benefits:**

- Low cost of ownership
- 2 yr warranty
- Minimal maintenance
- Intuitive software for easy use
- Robust & reliable
- Secure data storage
- Extensive basis configuration

**Applications:**

- Effluent discharge monitoring
- Storm water monitoring
- Industrial process water control
- Aquaculture
- Environmental monitoring

**MultiSys: BlueSense** is a low cost 2 or 4 channel monitoring system for aqueous environments. Display and operation are via an easy to use touch screen. The Blue sense may be used as a stand alone instrument or may be networked into an extensive array of monitoring and control modules via the "Blue Box" interface.

Sensors include the very robust and regenerable ISFET pH sensor. No delicate glass membranes to break and may be regenerated after 2 years at a modest cost. The "three" coil technology of the inductive conductivity sensor gives high accuracy at low conductivity with minimal interference BlueSense offers an affordable solution for a wide range of applications.

## Transmitter/Controller Specification

<b>Mechanical Construction:</b>	<b>Dimensions l x h x d</b>	235x185x119 mm
	<b>Weight:</b>	1.3 kg
	<b>Materials:</b>	Polycarbonate
	<b>Ambient conditions:</b>	-10 to 45 °C
	<b>Weather Protection:</b>	IP65
	<b>CE:</b>	Compliant
<b>Inputs:</b>	<b>Analog:</b>	2 or 4 Analogue inputs (specify)
	<b>Digital:</b>	2 (static) volt free contacts
		2 pulse in (PNP/NPN) selectable(option static)
<b>Outputs:</b>	<b>Display:</b>	LCD touch panel: 240x128 pixel Measured values, bar graphs, function keys And set up
	<b>Analogue:</b>	2 off 0/4–20 mA galvanically isolated, user configurable.
	<b>Relays:</b>	2 off potential free contacts rated @ 2Amps 230 VAC 2 off potential free, alarm contacts
	<b>Data interface:</b>	RS 232, RS485 9600baud, div protocols, e.g. modbus SDI 12 CAN-bus access for connection to BlueBox system Ethernet, 10Mbits, diverse protocols, e.g. TCP/IP GSM,GPRS,UMTS (optional Modem) SD card slot for data logging
<b>Power requirements:</b>	<b>Supply voltage:</b>	230VAC -50 Hz, or 24VDC/12VDC
	<b>Load:</b>	8Watts

## Sensor Specifications

parameter	range	resolution	accuracy	Response Time
temperature (deg C) NTC	-10 - +80 deg C	0.01	0.1	< 20 s
DO (mg/l) Galvanic	0-20 mg/l	0.1	0.2	< 15 s
DO (% sat)	0-200%	0.1	2 % of span	< 15 s
SC (mS/cm) Inductive	0-120 mS/cm	0.01 mS/cm	0.1 mS/cm or 1% value	< 10 s
SC (mS/cm) inductive	40 – 4000 µS/cm	1 µS/cm	5 µS/cm or 1% value	< 10 s
pH (units) ISFET	1-14	pH 0.01	pH 0.1	10 s (T90)
pH(units) Glass Electrodes	1-14	pH 0.01	pH 0.1	20s (T90)
ORP (mV)	-2000 to +2000mV	1 mV	1% value	
turbidity (NTU) 90deg scatter, at 860nm	0-3000 FNU specific calibration	0.001	2 % FS up tp 40 FNU 5 % FS up to range	< 10 s
ISE sensors	DETAILS ON APPLICATION	DETAILS ON APPLICATION	DETAILS ON APPLICATION	DETAILS ON APPLICATION

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