



**MANUFACTURERS & EXPORTERS
OF ANALYSERS & SENSORS
FOR
API | PROCESS INDUSTRY**



pH / ORP

**Conductivity
TDS**

**Temperature
RPM**

Optical DO

Data Loggers



GLOBAL ELECTRONICS

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ABOUT US

Global Electronics was established in 1977 with an aim to start the digitalisation era in process instrumentation and automation in India and worldwide. The conviction in our dream got stronger when we exported India's first Digital pH Meter to France in 1978. We are a Design and Manufacturing house, specializing in inventing state of the art instruments for Process Control Industry.

Our motto : "Reliability through Design".

We were the first to Automate the Process pH Control in 1981 without using a PLC, and since then we are Automating Various parameters in Industries and providing SCADA for the same.

Our design and manufacturing capabilities are proven by the fact that we have been repeatedly getting orders from DRDO since 1981 on single tender basis, as we have the capability to design and customise cost effective instruments and sensors which qualify all the criteria including EMI/EMC safe, Low temperature test, Vibration test, Thermal Shock Test to name a few. We also do private labelling for company like Honeywell, UTC (Carrier race) and many more.

Some of Our Customers

- | | | |
|---|--|---|
| <input type="checkbox"/> Aurobindo Pharma Ltd | <input type="checkbox"/> Yashoda Hospitals | <input type="checkbox"/> DRDL |
| <input type="checkbox"/> Dr.Reddy's Laboratories Ltd | <input type="checkbox"/> Fernandez Hospitals | <input type="checkbox"/> RCI |
| <input type="checkbox"/> Natco Pharma Ltd | <input type="checkbox"/> Rainbow Hospitals | <input type="checkbox"/> BDL |
| <input type="checkbox"/> Sanmar Speciality Chemicals | <input type="checkbox"/> Olive Hospitals | <input type="checkbox"/> Arch Pharma Labs Ltd |
| <input type="checkbox"/> GSFC | <input type="checkbox"/> Star Hospitals | <input type="checkbox"/> Biological E Ltd |
| <input type="checkbox"/> Nectar Lifesciences | <input type="checkbox"/> Mylan Labs | <input type="checkbox"/> Dhanuka Laboratories |
| <input type="checkbox"/> Delta Airconditioning, | <input type="checkbox"/> Covalent Labs | <input type="checkbox"/> Cavotec, Malaysia |
| <input type="checkbox"/> Australia | <input type="checkbox"/> India Immunologicals | <input type="checkbox"/> IICT |
| <input type="checkbox"/> Dalas Biotech | <input type="checkbox"/> Unique Pharmaceutical, Nigeria | <input type="checkbox"/> Elring Klinger |
| <input type="checkbox"/> Nuclear Fuel Complex | <input type="checkbox"/> Auronext Pharma Pvt Ltd | <input type="checkbox"/> Pharmazell |
| <input type="checkbox"/> Aurobindo Datong, China | <input type="checkbox"/> NCL | <input type="checkbox"/> Kemwell Biopharma |
| <input type="checkbox"/> Techno Solutions, Saudi | <input type="checkbox"/> MRF | <input type="checkbox"/> Torrent Gujarat Biotech |
| <input type="checkbox"/> Arabia | <input type="checkbox"/> Akums Drugs & Pharmaceuticals | <input type="checkbox"/> Adcock Ingram, South Africa |
| <input type="checkbox"/> NWLC, Russia | <input type="checkbox"/> BHEL | |
| <input type="checkbox"/> Drug Manufacturing Co., | <input type="checkbox"/> Oman Chemicals & | |
| <input type="checkbox"/> Dubai | <input type="checkbox"/> Pharmaceuticals, Oman | |

....and many more

Sole Distributors in India for



Van London Company., USA is one of the largest manufacturers of pH, ORP, Dissolved Oxygen & Conductivity electrodes in the world. The state of the art 30,000 sft manufacturing units produces over 50,000 electrodes in almost 3000 varieties and are sold all over the world.

The new Patented **GX-V Green Glass** delivers unparalleled performance and stability in the most demanding applications.



We are authorised distributor for Jenco Instruments, USA in India. Jenco is a family owned water quality meter manufacturer that in 1973 launched the world's first digital portable pH meter. Jenco's pioneering spirit and the relentless focus on quality and value continue to inspire us to build the best next generation products - from the simplest testers to the most advanced, gesture-operated benchtop meters that can stream data over WIFI networks.

PROCESS PH / ORP

pH / ORP Indicator



**DPH 509
Panel Mount**

- ❑ True Differential Input system with Solution Ground referencing to eliminate Ground Loop Problems
- ❑ High performance design for use in difficult samples - Ultrapure Water & Partially Aqueous media
- ❑ Available in Panel Mount, Wall Mount & Flameproof Enclosures
- ❑ 4-20mA Output



**DPH 509
Flameproof
(Truly Flameproof)**

pH / ORP Controller



DPH 510

- ❑ True Differential input measurement system
- ❑ Solution Ground referencing eliminates Ground Loop problems
- ❑ High performance design for use in difficult samples like Pure Water
- ❑ 2 Set point ON OFF / Dead band Control
- ❑ Available in Panel Mount, Wall Mount & Flameproof Enclosures
- ❑ 4-20mA Output



DPH 510 FLP

pH / ORP Transmitter



**DPH 512
Flameproof
(Truly Flameproof)**

- ❑ True Differential Input system with Solution Ground reference
- ❑ 24V DC Operation
- ❑ Ground referenced 4 - 20mA output
- ❑ High performance design for use in difficult samples - Ultrapure Water & Partially Aqueous media



**DPH 512
Panel Mount**

PROCESS pH / ORP

Advanced pH / ORP Controller



DPH 513

Model DPH 513 is specially designed for Batch pH Control in Pharmaceutical & Water Treatment applications. The special control algorithm developed for pH control has proved itself over thirty years in critical Enzymatic reaction applications.

- Advanced Dual Mark Space Control Algorithm for precision control
- Minimum use of Dosing reagents
- Simple ON/OFF Control Elements
- 3 Point & 5 Point Electrode calibration for high sensitivity applications
- Solution Ground referencing to eliminate Ground Loop problems
- High performance design for use in difficult samples like partially aqueous media
- Automatic / Manual Temperature Compensation
- Digital input for Control HALT
- RS 485 MODBUS RTU Communication / 4-20 mA Output
- Available in Panel Mount, Wall Mount & Flameproof Enclosures

DIGILOG pH/ORP Transmitter

'Digi' represents all the features of digital pH Transmitter and 'Log' represents the connectivity with standard analog electrode which will drastically reduce the replacement cost of electrode and logging of your calibration data

- Works with any analogue pH Electrode which will reduce the replacement cost
- Data Management: in-built storage of calibration data
- RS 485 or 4-20mA output for connecting to HMI or integrating with SCADA
- Auto-buffer recognition
- Available in Certified Flameproof Enclosure
- Microprocessor based instrument
- Supports more than 3000 types of Electrodes with different applications



DPH 515

pH / ORP Isolator

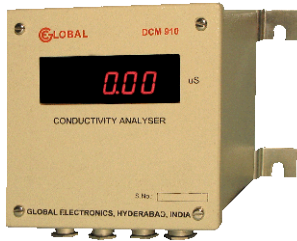


ISO 160

Global's pH & Temperature Isolator Signal Conditioning Module is designed for isolating pH Transmitter's signal to On-line Indicator / Controller.

It uses up to four levels of isolation to eliminate ground loop problems and induced field noise

PROCESS CONDUCTIVITY / TDS



DCM 910

- High performance design for use in difficult samples like Pure Water
- 20µS to 2 S ranges
- TDS display option
- 2 Set point ON OFF /
- Dead band Control
- Ground referenced 4-20mA / 0-10V output for Data Acquisition

CONDUCTIVITY CELLS FROM VAN LONDON Co., USA



- In-Line Installation
- Temperature Compensation
- Treated 316 Stainless Steel Body
- Cell Constant Validated At The Factory
- C621: IP 65 Detachable Plastic Cable Connector
- C621H: NEMA 4 Aluminum Threaded Terminal Box
- Temperatures Sensors: 10K NTC, Pt100 and 1000



- In-Line or Submersible Installation
- Temperature Compensation
- Treated 316L Stainless Steel Body
- Cell Constant Validated at the Factory
- 10 Foot Leads with Spade Lugs
- Temperature Sensors: 10K NTC, PT100, or Pt1000

Torroidal Conductivity Cell



Torroidal Conductivity is perfect for applications that would foul or attack the metal of contacting sensors

Low cost
Durable Polypropylene construction
Submersible or in-line mounting
Ease of maintenance

Process Conductivity Cell

- Concentric 2 electrode Cells
- Cell Constants of 1.0 0.1, 0.01
- Versions for Temperatures upto 205°C
- Available in SS 316 Housing



TEMPERATURE INDICATORS AND CONTROLLERS



DTM 700



TI700



TI701

- | | |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> PT100 input Linearised to 0.25% w.r.t. Temperature <input type="checkbox"/> Flame proof Gas Gr. IIA, B, Weatherproof IP56 <input type="checkbox"/> High visibility LED display <input type="checkbox"/> Easy 2" pipe mounting <input type="checkbox"/> Ground referenced 4-20mA DC retransmission output for Data Acquisition | <ul style="list-style-type: none"> <input type="checkbox"/> Compact Temperature Indicator <input type="checkbox"/> Certified Flameproof, IS/IEC 60079-1, Gas Grp. IIA, IIB <input type="checkbox"/> Range : -200°C to 500°C with 0.1°C resolution <input type="checkbox"/> Password Protected <input type="checkbox"/> Flameproof wit Magnetic Key for "EXTERNAL SOFTWARE CALIBRATION" <input type="checkbox"/> RS485 OR 4-20 mA for Data Logging <input type="checkbox"/> Relay or Alarm Buzzer <input type="checkbox"/> In built Lead Resistance Compensation Circuit |
|--|---|

EXTERNAL CALIBRATION
FOR TRUE FLAMEPROOF OPERATION
NO COMPROMISE ON SAFETY

CUSTOM RTD / THERMOCOUPLE SENSORS



- RTD / Thermocouple Sensors
- Type K /R/ J Thermocouple Sensors
- Pencil Type, Flat Leaf sensors also available
- Availilabel in Flameproof head

DUAL CHANNEL TEMPERATURE INDICATOR



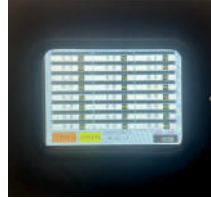
- Universal Input
- Dual Analog Input
- Certified Flame Proof IS2148-2004, Gas Gr. II A,B
- High Precision, High Accuracy
- Sensor Linearization better than 0.25% FS
- Wide Range of Measurement
- Supplied with Calibration Certificate traceable to NABL

SCANNERS & DATA LOGGERS



DTM 705

- PT100 input Linearised to 0.25% w.r.t. Temperature
- 4,6,8 or 10 Channels
- AutoScan / Hold / Manual modes
- Individual channel Zero calibration
- Panel / Wall mount / Flameproof



PAPERLESS DATA LOGGERS

- TFT Touchscreen Display
- Data logging-32000 per channel is secured
- Available in 8 or 16 universal input (RTD, Thermocouple 0-5Vdc, 0-20mA or 4-20 mA input signals.)
- Parallel Port to connect to dot matrix printer
- Two relay outputs Individual Alarm relay (HI / LO)
- Additional relay outputs with optional Relay card
- Networkable using Ethernet Port (optional)
- Free PC Based Data Acquisition software
- 21 CFR Part 11 (optional)
- 3.5 inch TFT with Touch Screen Control
- Front end IP65 protection
- USB Port (Memory stick)

PROCESS INDICATORS



- Dedicated RPM indication
- Three Analogue inputs to connect (Temperature/pH/RPM/TDS/DO etc)
- Output RS 485 MODBUS RTU PROTOCOL
- Emergency Stop Button
- Flameproof Enclosures

BATT OPERATED WIRELESS TEMP / RH DATA LOGGERS



2 CHANNEL ANALOGUE INPUT DATA LOGGER WITH SOFTWARE AND WIRELESS TRANSFER TO PC



RPM INDICATORS



- Start Push Button with NO contact
- STOP Push Button with NC contact
- Multiturn Potentiometer for Speed Setting
- Digital Speed Indicator

PID CONTROLLERS



- Control of Temperature, Humidity, Pressure, Flow and pH
- PID + Fuzzy algorithm for excellent control
- Built in Bar Graph Display
- Advanced options like Motor Valve Control, SCR/TRIAC trigger and Programmable RAMP/SOAK

Available in all sizes and configuration

ONLINE OPTICAL DO METER & SENSORS



**Turbidity
Sensor**



**Optical
DO Sensor**

Wireless multi parameter Water Quality Monitoring Systems

- This sensor is based on Optical Fluorescence lifetime quenching technique
- Its technical procedure meets ASM D888-09 standard for optical sensing of Dissolved Oxygen
- Digital Communication capabilities allow to integrate into various platforms quickly & easily

LAB OPTICAL DO



- Wireless multi-parameter water quality monitoring system.
- The system can monitor dissolved oxygen, conductivity, turbidity, pH, and Temperature simultaneously through wireless networks.
- The data collected by various sensors can be monitored in-situ remotely.
- The system can be powered up by either 110/220V AC power or by solar panels.

PH/ORP/DO/ISE ELECTRODES FROM VAN LONDON Co., U.S.A

3000 TYPES OF PH ELECTRODES FOR EVERY APPLICATION



Van London Company established in 1961 by Gregory S. Van London, has been dedicated to providing products & services to meet or exceed customers' expectations. With their **50** plus years of manufacturing and applications expertise, and their continual process of improvement and innovation, they are delivering a wide range of **pH, ORP, ISE, DO Electrodes**, to the complete satisfaction of their customers.

Their new innovative **Green GX V Glass, Solid Polymer Reference and Z Gel Open Pore Reference** are standing examples of their commitment to innovation.

JUST THINK GREEN for the best pH Glass Formula

CONDUCTIVITY CELLS



Sole Distributors in India:

VAN LONDON Co., U.S.A

Process pH Controller

pH Temperature measurement
0-14 pH and 0-100oC
Dual 4 Digit LED Display
Auto / Manual Temperature Compensation
3 point Auto Calibration for buffers
Error Indication for Buffer range and Slope error
RTD Temperature Sensor



OPTIONS: Relay Output, Control Set Point Logic, Current O/P, MODBUS O/P

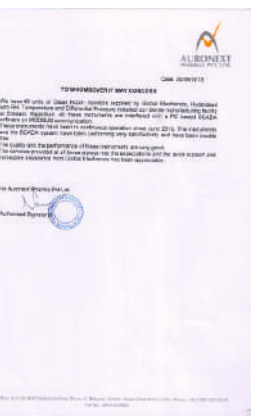
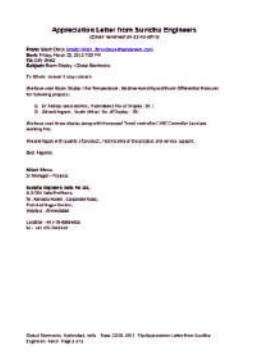
Process Conductivity Controller



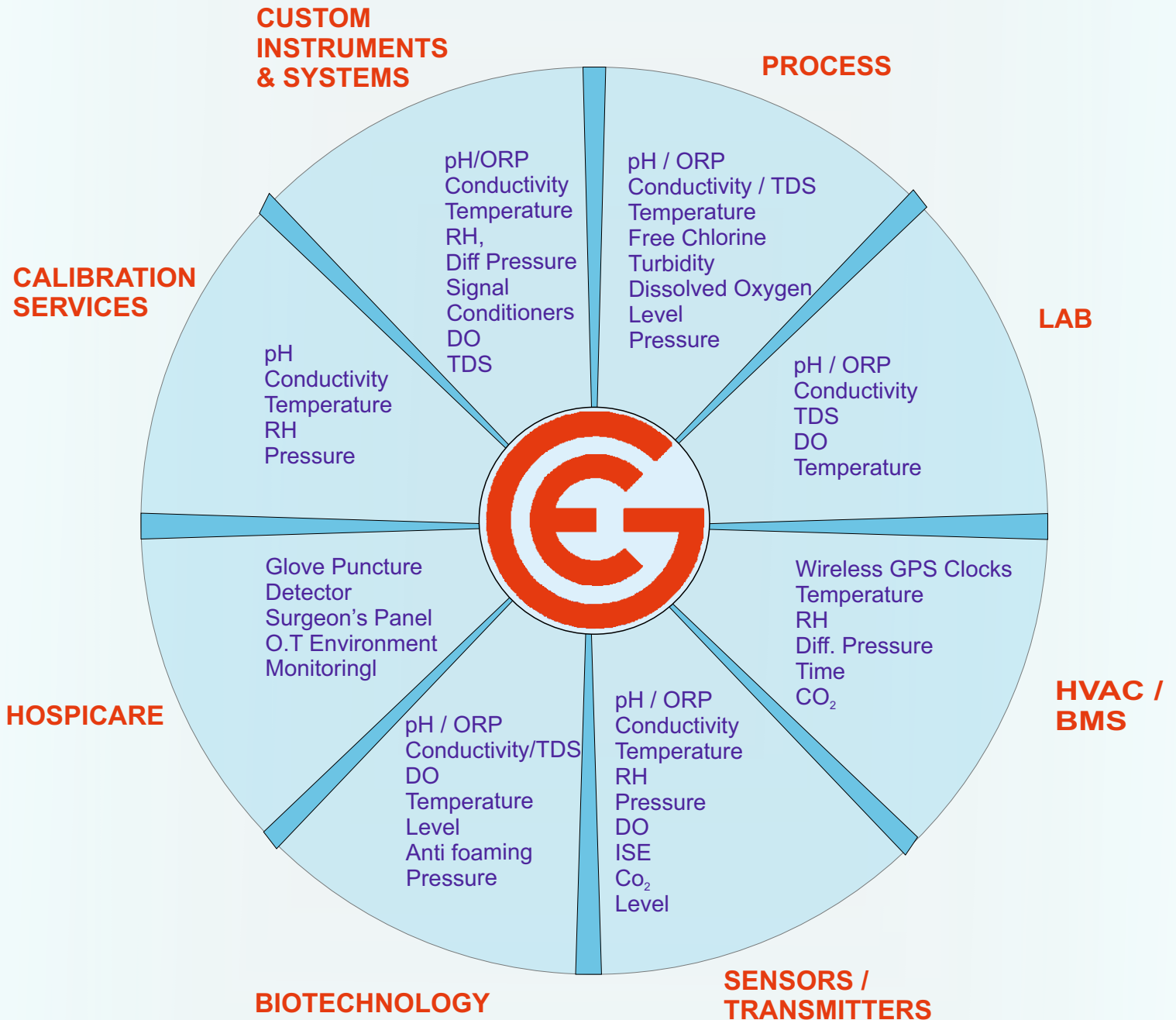
Conductivity Temperature measurement
Single Range as per requirement
Manual Single Point calibration
Calibration range - 30% of display reading

OPTIONS: Relay Output, Control Set Point Logic, Current O/P, MODBUS O/P

Letters of Appreciation



PRODUCT LINE



GLOBAL ELECTRONICS

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