



ABOUT US

When people think of reliable, sophisticated and high quality

- * **ANALYTICAL**
- * **PROCESS CONTROL**
- * **METERING PRODUCTS - GAS CHLORINATORS,
DOSING PUMPS & SYSTEMS**
- * **INDUSTRIAL & OTHER INSTRUMENTS**

the name that comes to mind since 1948 is

“TOSHCON - TOSHNIWAL”

Group of manufacturing and marketing companies –

TOSHNIWAL INSTRUMENTS MFG. PVT. LTD.,
TOSHCON CD AUTOMATION (INDIA) PVT. LTD.,
TOSHCON JESCO (INDIA) PVT. LTD.,

Our more than 70 years long noteworthy existence in the market in itself is a proof of satisfaction of our customers with our products, effective after sales service and commitment to continuous R&D and upgradation with foreign tie-ups.

Employing about 150 people comprising of several qualified, experienced and Foreign trained Managers, Executives and Engineers etc.

All the three units are located in Ajmer which is about 130 kms. from Jaipur and about 400 kms. from New Delhi.

Manufacturing and Testing facilities available

Chemical Lab for analysis,

Glass blowing section for pH/ Redox Electrodes,

Electronic assembly, calibration & testing for Analytical, Process Control, Industrial, Chlorination Systems & Metering products & other instruments.

Quality control set up for incoming & outgoing material.

TOSHNIWAL INSTRUMENTS MANUFACTURING PVT. LTD.,

P.O. Gagwana - 305023, Distt: Ajmer (Raj.) INDIA

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REGD OFFICE: 401, Manish Chamber, Sonawala Cross Lane, Goregaon (E), MUMBAI - 63



OUR MENTOR, BELOVED PAST CHAIRMAN
(LATE) SHRI G.S. TOSHWAL
(1920 TO 1992)

Founder, Parent Company, **TOSHWAL BROTHERS PVT. LTD. (1948)**

PARTIAL LIST OF ESTEEMED USERS

- | | |
|---|--|
| 1 Adani Power | 16 Indian Council of Agricultural Research |
| 2 Ambuja Cement Company | 17 Indian Institute of Technology |
| 3 Bhabha Atomic Research Centre | 18 Indian Space Research Organisation |
| 4 Bharat Heavy Electrical Ltd. | 19 Larsen & Toubro Ltd. |
| 5 Bharat Petroleum Corporation Ltd. | 20 Megha |
| 6 Central Pollution Control Board | 21 National Dairy Research Institute |
| 7 Defence Research Development Org. | 22 National Thermal Power Corporation |
| 8 Gas Authority of India Ltd. | 23 NCC |
| 9 Grasim | 24 Nuclear Power Corporation of India Ltd. |
| 10 Gujarat State Fertilizer Ltd. | 25 Oil & Natural Gas Corporation |
| 11 Hindalco Industries Ltd. | 26 Reliance Industries Ltd. |
| 12 Hindustan Aeronautics Ltd. | 27 Steel Authority of India |
| 13 Hindustan Lever Ltd. | 28 Tata Chemicals |
| 14 Hindustan Petroleum Corporation Ltd. | 29 Thermax Ltd. |
| 15 Hindustan Zinc Ltd. | 30 Triveni Engineering & Industries Ltd. |

CUSTOMER CARE

The **TOSHCON - Customer Care Cell** was established to build a centre for customer service excellence committed for providing total support to all our customers in following areas:

Catalogue Requests,
Free Demonstrations,
Sales Order Processing,
Installation & Commissioning,
Service Phone Calls,
In-House & Onsite Repairs,
Warranty & Post Warranty Support,
Preventive Maintenance Scheduling.

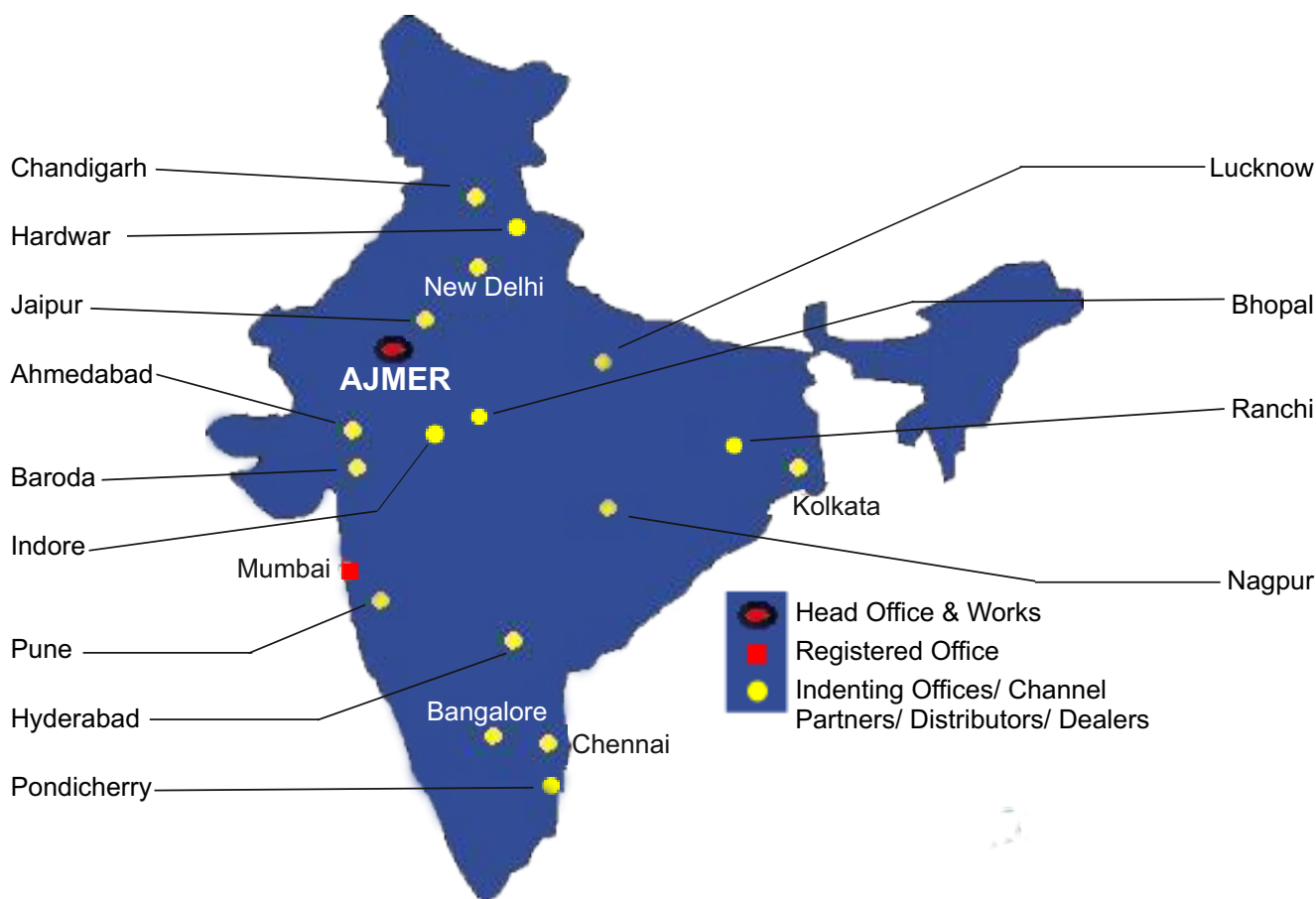
For any of the above or any other support you may kindly contact or write directly to:

Manager - Customer Care
TOSHWAL INSTRUMENTS MFG. PVT. LTD.,
P.O. Gagwana - 305023, Distt. Ajmer,
Rajasthan (India)
Mobile: +91-9414006717
Phone: +91-145-2971131/ 2/ 3
E-mail : customercare@toshcon.com

MARKETING & SERVICING NETWORK

Our **marketing and servicing network** is spread to strategically cover **ALL INDIA**. We have **our own** & main indenting offices, area representatives, channel partners/ distributors etc. all over India namely Mumbai, New Delhi, Kolkata, Chennai, Bangalore, Hyderabad, Pondicherry, Ahmedabad, Baroda, Indore, Jaipur, Hardwar, Chandigarh, Nagpur, Pune, Lucknow, Bhopal, Ranchi etc. etc.

This network takes care of specialised & even intricate business areas and pockets for big & small clients in all corners of India.

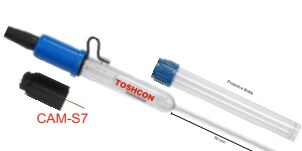
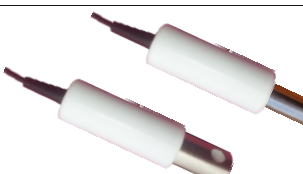


WORKS

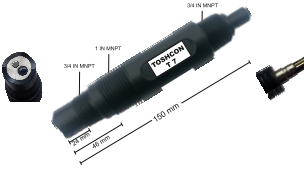
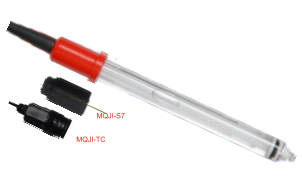
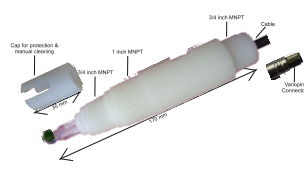
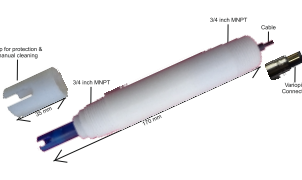
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LABORATORY pH / REDOX / CONDUCTIVITY ELECTRODES			
pH ELECTRODE CA 11 	pH ELECTRODE CAPJ 	pH ELECTRODES WITH 5 POINT CALIBRATION CAF-11 / CAFGG 	pH ELECTRODES WITH 5 POINT CALIBRATION UNBREAKABLE CAFP11 
* pH range: 0-14 pH * Temp range: 0 to 70°C * No. of Junction: Single * Response Time: <10 sec for 95% response from pH 7.00 to pH 4.01 * Slope: 59 ±3mV (95-105%) at 25°C * Glass Membrane Impedance: <200 MΩ at 25°C * Reference System: Ag/AgCl * Reference Electrolyte: KCl * Diaphragm: Ceramic * Shape of Membrane: Spherical * Shaft Length: 120 mm * Connector Type: BNC/ S7	* pH range: 0-14 pH * Temp range: -5 to 80°C * No. of Junction: Single * Response Time: <10 sec for 95% response from pH 7.00 to pH 4.01 * Membrane Glass: Blue * Reference System: Ag/AgCl * Reference Electrolyte: Gel * Diaphragm: Ceramic * Temp. Comp.: Pt100/ Pt1000 (inbuilt) * Shape of Membrane: Spherical * Shaft Length: 120 mm * Shaft Material: Polycarbonate(Plastic) * Connector Type: BNC/ S7	CAF CAFGG * pH range: 0..14 0..14 * Op. Temp.: 0..70°C 0..70°C * Temp. Comp.: Optional Optional * Pt100/ Pt1000 (Inbuilt) * Response: <10 sec for 95% response Time from pH 7.00 to pH 4.01 * Stability: <3 mV drift/24 hrs in pH7 buffer * No. of Junction: Single Single * Diaphragm: Ceramic Ground Glass * Reference: SREF+ SREF+	* pH range: 0-14 pH * Op. Temp.: -5 to 80°C * No. of Junction: Single * Response Time: <10sec for 95% response from pH 7.00 to pH 4.01 * Slope: 59 ±3mV (95-105%) at 25°C * Glass Membrane Impedance: <200 MΩ at 25°C * Membrane Glass: Green * Reference System: SREF+ * Reference Electrolyte: KCl * Diaphragm: Ceramic, 2 Nos. * Shape of Membrane: Spherical * Shaft Length: 120 mm * Connector Type: BNC/ S7/ S8
pH ELECTRODE (FLAT SURFACE) CAPFS/ CAPJFS (Unbreakable, KCl/ Gel Filled) 	NON AQUEOUS pH ELECTRODE CAFD-Li 	pH ELECTRODE (SEMI-MICRO) CASM Glass Body, KCl Filled 	pH ELECTRODE (MICRO) CAM Glass Body, KCl Filled 
* pH range: 0-14 pH * Op. Temp.: 0 to 70°C * No. of Junction: Single/ Double * Zero Point: pH 7 * Asymmetry Potential: 0 ±25 mV * Slope: 59 ±3mV (95-105%) at 25°C * Membrane Glass: Green * Reference System: Ag/AgCl * Reference Electrolyte: Gel * Diaphragm: Teflon * Shape of Membrane: Flat * Shaft Length: 120 mm * Shaft Material: Polycarbonate * Connector Type: BNC/S7/S8/Variopin	* pH range: 0-14 pH * Op. Temp.: 0 to 90°C * No. of Junction: Double * Zero Point: pH 7 * Asymmetry Potential: 0 ±25 mV * Slope: 59 ±3mV (95-105%) at 25°C * Membrane Glass: Green * Reference System: Ag/AgCl * Reference Electrolyte: Toshcon Li * Diaphragm: Ceramic, 3 Nos. * Shape of Membrane: Spherical * Shaft Length: 120 mm * Shaft Material: Glass * Connector Type: BNC/ TC/ S7/ S8/ Variopin	* pH range: 0-14 pH * Temp range: 0 to 70°C * No. of Junction: Single * Response Time: <10 sec for 95% response from pH 7.00 to pH 4.01 * Slope: 59 ±3mV (95-105%) at 25°C * Membrane Glass: Green * Minimum Volume Requirement: 0.2 ml * Reference System: SREF+ * Reference Electrolyte: 3M KCl * Diaphragm: Ceramic * Shape of Membrane: Spherical * Shaft Length: 80x12 & 40x6 mm * Connector Type: BNC/ S7	* pH range: 0-14 pH * Op. Temp.: 0 to 100°C * No. of Junction: Single * Response Time: <10 sec for 95% response from pH 7.00 to pH 4.01 * Slope: 59 ±3mV (95-105%) at 25°C * Minimum Volume Requirement: — ml * Reference System: SREF+ * Reference Electrolyte: 3M KCl * Diaphragm: Ceramic * Shaft Length: 60x12 & 60x3 mm * Immersion Depth.: 60mm * Connector Type: BNC/ S7
ORP/ REDOX ELECTRODE MQ-17 (Glass, KCl Filled) 	ORP/ REDOX ELECTRODE MQPJ (Glass, Gel Filled) 	LABORATORY CONDUCTIVITY PROBES (SS) TCL1 / TCL01 	LABORATORY CONDUCTIVITY PROBES (GLASS) TCC-1 / TCC-01 
* ORP range: ±2000 mV * Op. Temp.: -5 to 80°C * Reference Impedance: <50KΩ at 25°C * No. of Junction: Double * Reference System: Ag/AgCl * Reference Electrolyte: KCl * Diaphragm: Ceramic * Shape of Membrane: Platinum Spiral * Shaft Length: 120 mm * Shaft Material: Glass * Connector Type: BNC/ TC/ S7/ S8/ Variopin	* ORP range: ±2000 mV * Op. Temp.: -5 to 80°C * Reference Impedance: <50KΩ at 25°C * No. of Junction: Single * Reference System: Ag/AgCl * Reference Electrolyte: Gel * Diaphragm: Ceramic * Shape of Membrane: Platinum Spiral * Shaft Length: 120 mm * Shaft Material: Polycarbonate (Plastic) * Connector Type: BNC/ TC/ S7/ S8/ Variopin	* Measurement Principal: 2 electrode * Cell constant (cm⁻¹): 0.1/ 1.0 * Electrode material: SS316L * Body material: PP * Sensor Diameter: 12mm/ 19mm * Insertion Length: 27mm / 27mm * Temp. Range: -10 to 80°C * Temp. Compensation: Pt100/ Pt1000 * Wetted material: Metal- SS316L, Plastic- PP, O-Rings- Silicon, Insulation- Teflon * Connection Type: BNC	* K (Cell constant): 1.0 (TCC-1) * K (Cell constant): 0.1 (TCC-01) * Range (TCC-1): 50.0 μS to 100 mS * Range (TCC-01): 0.50 μS to 100 μS * Material: Pure Platinum Foils * Body Material: Borosilicate Glass * Temp. Range: 0 - 50°C * Max. Pressure: Approx. 40 psi * Length: 150 mm * Dia.: 12 mm * Connection Type: 5 Pin/ BNC Connector

ONLINE pH / REDOX / CONDUCTIVITY ELECTRODES

pH ELECTRODE CAH 11D / CAH 42D	pH ELECTRODES CAPJE Plastic Body, Gel Filled	pH ELECTRODE CAJI Borosilicate Body, Gel Filled	ELECTRODE TPPO FOR HIGH TEMPERATURE INDUSTRIAL APPLICATION
			
* pH range: 0-14 pH * Temp range: 0 to 130°C * No. of Junction: Single * Response Time: <10sec for 95% response from pH 7.00 to pH 4.01 * Slope: 59 ±3mV (95-105%) at 25°C * Glass Membrane Impedance: <500 MΩ at 25°C * Reference System: SREF+ * Reference Electrolyte: Special * Diaphragm: Ceramic * Shape of Membrane: Spherical/ Conical * Shaft Length: 120 mm * Connector Type: BNC/ S7/ S8	* pH range: 0-14 pH * Temp range: -5 to 80°C * No. of Junction: Single * Response Time: <10 sec for 95% response from pH 7.00 to pH 4.01 * Membrane Glass: Blue * Reference System: Ag/ AgCl * Reference Electrolyte: Gel * Diaphragm: Ceramic * Temp. Comp.: Pt100/ Pt1000 (inbuilt) * Shape of Membrane: Spherical * Shaft Length: 120 mm * Shaft Material: Polycarbonate(Plastic) * Connector Type: BNC/ TC/ S7/ S8	* pH range: 0-12/ 0-14 pH * Temp range: Up to 100°C * No. of Junction: Single/ Double * Glass Membrane Impedance: <300 MΩ at 25°C * Membrane Glass: Blue/Green/Brown * Temp. Comp.: Pt100/ Pt1000/ 30K NTC * Pressure: Up to 6 Bar at 25°C * Reference Electrolyte: HGel+ * Diaphragm: Teflon, Additional Ceramic (in case of Double Junction) * Shape of Membrane: Spherical * Shaft Length: 120 mm * Shaft Material: Borosilicate * Connector Type: BNC/ TC/ S7/ S8/ Variopin	* pH range: 0-14 pH * Temp range: Up to 120°C * No. of Junction & Chamber: Double * Glass Membrane Impedance: <300 MOhm at 25°C * Membrane Glass: White, Blue, Green * Temp. Compensation: Pt100/ Pt1000/ 30K NTC * Pressure: Up to 6 Bar at 105°C/ max 72 psig * Reference Electrolyte: HGel+ * Diaphragm, No.: Ceramic, One * Shape of Membrane: Spherical * Shaft Length: 120 mm * Connector Type: BNC/ S8/ Variopin
ELECTRODE TFERM FOR AUTOCLAVABLE, STEAM STERILIZABLE INDUSTRIAL APP.	ELECTRODE TPURE/ TPURE-ECO HIGH PERFORMANCE FOR ULTRA-PURE/ DE-IONIZED WATER APPLICATION	ONLINE / INDUSTRIAL pH/ REDOX SENSOR TOSHCON T7	ONLINE / INDUSTRIAL pH/ REDOX SENSOR TOSHCON T3
			
* pH range: 0-14 pH * Temp range: Up to 105°C (steam up to 140°C) * No. of Junction & Chamber: Double * Glass Membrane Impedance: <300 MOhm at 25°C * Membrane Glass: White, Blue, Green * Temp. Compensation: Pt100/ Pt1000/ 30K NTC * Pressure: Up to 6 Bar at 105°C/ max 72 psig * Reference Electrolyte: CLP+ Hard Gel * Diaphragm, No.: Ground Glass, One * Shape of Membrane: Spherical * Shaft Length: 120, 225, 325, 425 mm	* pH range: 0-14 pH * Temp range: Up to 80°C * Slope: 59 ±3 mV at 25°C * No. of Junction: Single * Glass Membrane Impedance: <300 MOhm at 25°C * Membrane Glass: White & Blue * Temp. Compensation: Pt100/ Pt1000/ 30K NTC * Pressure: Up to 3 Bar (TPURE-ECO) * Reference Electrolyte: 3M KCl (TPURE)/ HGel+ (TPURE-ECO) * Diaphragm, No.: Ground Glass, One/ Ceramic (TPURE) Three (TPURE-ECO) * Connector Type: BNC/ S8/ Variopin	* pH Range: 0 - 14 pH/ Redox ± 1500mV * Temp. Rating: 0° to 105°C (Ryton) * Pressure: 0-100 PSIG * Ref. Junction: Teflon Body: Ryton * Membrane Shape: Rugged Electrode Tip with Dome shape (pH) / Disc shape (Redox) * Electrolyte: Combination of HGEL+ & CLP+ Hard Polymer gel * Solution Ground: Optionally available * Temperature Compensation: Optionally available * No. of Junctions: Double * Connections: Process ¾ & 1 inch MNPT front and ¾ inch rear facing connections * Cable Length: Standard Five Meter/ Fifteen Feet Low Noise Cable * Compatible with most Analyzers available.	* pH Range: 0 - 14 pH/ Redox ± 1500mV * Temp. Rating: 0° to 105°C (Ryton) * Pressure: 0-100 PSIG * Ref. Junction: Teflon Body: Ryton/ PVDF * Membrane Shape: Rugged Electrode Tip with Dome shape (pH) / Disc shape (Redox) * Electrolyte: Combination of HGEL+ & CLP+ Hard Polymer gel * Solution Ground: Optionally available * Temperature Compensation: Optionally available * No. of Junctions: Double * Connections: Process ¾ inch MNPT front and ¾ inch rear facing connections * Cable Length: Standard Three Meter/ Nine Feet Low Noise Cable * Compatible with most Analyzers available.
ORP/ REDOX ELECTRODE MQJI (Glass, Gel Filled)	ONLINE/ INDUSTRIAL CONDUCTIVITY PROBES TCI-01/ TCI-001/ TCI-1	ONLINE / INDUSTRIAL pH/ REDOX ASSEMBLY TOSHCON T7-ECO	ONLINE / INDUSTRIAL pH/ REDOX ASSEMBLY TOSHCON T3ECO
			
* ORP range: ±2000 mV * Op. Temp.: 0 to 80°C * Pressure: Up to 5 Bar at 25°C * Temperature Compensation: Pt100/ Pt1000/ 30K NTC * No. of Junction: Single/ Double * Reference System: Ag/ AgCl * Reference Electrolyte: HGel+ * Diaphragm: Teflon * Shape of Membrane: Platinum Spiral * Shaft Length: 120 mm * Shaft Material: Borosilicate * Connector Type: BNC/ TC/ S7/ S8/ Variopin	* Measurement Principal: 2 electrode * Cell constant (cm⁻¹): 0.01/ 0.1/ 1.0/ 10 * Electrode material: SS316L * Body material: PVDF / SS316L * Sensor Diameter: 12mm/ 19mm * Insertion Length: 27mm / 80mm * Process connection: 3/4" NPT * Temp. Range: -10 to 120°C / -10 to 150°C * Temp. Compensation: Pt100/ Pt1000 * Wetted material: Metal- SS316L, Plastic- PVDF/ SS316L, O-Rings- Aflas	* Body: PVDF/ PP * Temperature Rating of the Housing: 0° to 105°C (PVDF); 0° to 80°C (PP) * Pressure: Depends on the selected Sensor * Solution Ground: Optionally available * Temp. Comp.: Optionally available * Connections: Process ¾ inch & 1 inch MNPT front and ¾ inch rear facing connections * Cable Length: Standard Three Meter/ Nine Feet Low Noise Cable * Suitable for pH/ Redox Sensor Model: TPPO, CAJI, CAPJE, MQJ, MQJI or MQPJE.	* Body: PVDF/ PP * Temperature Rating of the Housing: 0° to 105°C (PVDF); 0° to 80°C (PP) * Pressure: Depends on the selected Sensor * Solution Ground: Optionally available * Temp. Comp.: Optionally available * Connections: Process ¾ inch MNPT front and ¾ inch rear facing connections * Cable Length: Standard Three Meter/ Nine Feet Low Noise Cable * Suitable for pH/ Redox Sensor Model: TPPO, CAJI, CAPJE, MQJ, MQJI or MQPJE.

PORTABLE/ BENCHTOP MULTI-PARAMETER INSTRUMENTS

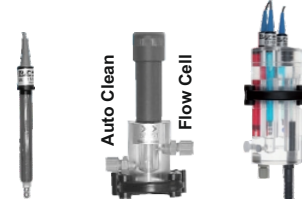
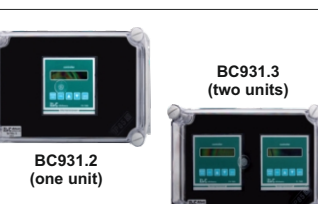
pH/ mV/ Conductivity/ Salinity/ TDS/ Temp. Meter TP 7/ TC 7/ TD 7	pH/ mV/ Con./ Resis./ Salinity/ TDS/ DO/ Temp. Meter TPC 7/ TPCD 7	pH/ mV/ Con./ Resis./ Salinity/ TDS/ DO/ Air Pressure/ Temp. TPC 27/ TPCD 27	pH/ mV/ Ion/ Con./ Resis./ Salinity/ TDS/ DO/ Air Pressure/ Temp. TMULTI 27
			
TP 7/ TC 7/ TD 7 * pH range : 0 to 14 * mV range : ±1000 * Cond. range : 0 to 1000 mS/cm * TDS range : 0 to 100 g/l * DO : 0 to 20 mg/l * Calibration : 3 point (pH) : 1 point (Con.) * Data logging : 300 values * Inputs : 1 pH/ mV, 1 Cond./ DO, 1 Pt1000 * Power Supply : Mains/ Battery	TPC 7/ TPCD 7 * pH range : 0 to 14 * mV range : ±1000 * Cond. range : 0 to 1000 mS/cm * TDS range : 0 to 100 g/l * DO : 0 to 20 mg/l (not in TPC17) * Calibration : 3 point (pH) : 1 point (Con.) * Data logging : 300 values * Inputs : 1 pH/ mV, 1 Cond./ DO, 1 Pt1000 * Power Supply : Mains/ Battery	TPC 27 * pH range : -2 to +16 * mV range : ±2000 * Cond. range : 0 to 2000 mS/cm * TDS : 0 to 100 g/l * Calibration : 1 to 5 point (pH) : 1 to 3 point (Con.) * Data logging : 3600 values * Interface : RS232 * Inputs : 1 Measurement, 2 Pt1000 * Power Supply : Mains/ Battery TPCD 27 (Other than above) * DO : 0 to 60 mg/l	TMULTI 27 * pH range : -2 to +16 * mV range : ±2000 * Cond. range : 0 to 2000 mS/cm * TDS : 0 to 100 g/l * DO : 0 to 60 mg/l * Ion range : 0.01 ng/l to 100 g/l * Calibration : 1 to 5 point (pH) : 1 to 3 point (Con.) * Data logging : 3600 values * Interface : RS232 * Inputs : 1 Measurement, 2 Pt1000 * Power Supply : Mains/ Battery
pH/ mV/ Con./ Resis./ Salinity/ TDS/ DO/ Air Pressure/ Temp. TPC 37/ TPCD 37	pH/ mV/ Ion/ Con./ Resis./ Salinity/ TDS/ DO/ Air Pressure/ Temp. TMULTI 37	DATA ACQUISITION SOFTWARE Model : TDIS	
(Dual Display) 	(Dual Display) 	 * By using a program-key, the data-logging will start automatically after opening the program. * All data is saved in a user defined setting. * Graphs are generated using automatic or user defined setting. * Different RS232 or USB ports can be used to connect several instruments. * Document printout shows : Date & Time, Operator Name, Company, Description of Instrument, Serial No. etc. * All functions are accessible through the menu. * Data is collected online with programmable interval or determined by the program (1s 24h). * Bidirectional * All measurements of multi-channel instruments are processed at the same time, each in its own window.	
TPC 37 * pH range : -2 to +16 * mV range : ±2000 * Cond. range : 0 to 2000 mS/cm * TDS range : 0 to 100 g/l * Calibration : 1 to 5 point (pH) : 1 to 3 point (Con.) * Data logging : 12000 values * High Resolution (0.001 pH) * RS232, USB, GLP, Two way comm. * Inputs : 2 Channel, 2 Pt1000 * Power Supply : Mains TPCD 37 (Other than above) * DO : 0 to 60 mg/l	TMULTI37 * pH range : -2 to +16 * mV range : ±2000 * Cond. range : 0 to 2000 mS/cm * TDS range : 0 to 100 g/l * DO : 0 to 60 mg/l * Ion range : 0.01 ng/l to 100 g/l * Calibration : 1 to 5 point (pH) : 1 to 3 point (Con.) * Data logging : 12000 values * High Resolution (0.001 pH) * RS232, USB, GLP, Two way comm. * Inputs : 2 Channel, 2 Pt1000 * Power Supply : Mains		
µP BASED BENCHTOP pH/ mV/ TEMP. METER TMP 3	DIGITAL pH/ REDOX METER CL 54+/46+	AUTO RANGING DIGITAL CONDUCTIVITY / TDS METER TCM 15+	COLOUR CODED pH BUFFER SOLUTIONS N.I.S.T. TRACEABLE
			
pH Range : 0.00 to 14.00 pH Accuracy : ±0.01 pH Resolution : 0.01 pH Slope : 80-120% mV Range : ±1000 mV Resolution : 1 mV Temp. Comp. : Automatic/ Manual Temp. Range : -5 to 135°C (Default at 25°C) Temp. Resolution : 0.1°C No. of Calibration : upto 3 points pH Buffer : pH 4.01, 7.00 & 10.01 Stability Indication : Yes Display : LCD White Backlit graphics (Size 128x64 pixels)	* pH/ Redox/ Temp. measurement * pH range: 0-14.00 * mV range: ± 1999 * Temp. range: 0-100°C * 3½ digit large LED display * Slope correction facility available * ATC & Recorder O/P available in model CL-46+ * Selectable Temp. Display also available in CL 46+	* Cond. Range: 0-2000 mS/cm * TDS range: 0-1.32x10 ⁶ ppm * Unique auto ranging facility (in 7 steps) * In-built TDS measurement facility * Variable cell constant * Selectable temperature co-efficient * 3½ digit large LED display	Buffers Standard Solutions in twin neck bottle with integrated calibration chamber. * No possibility of contamination * Built in measuring container * Specific quantity can be dispensed to avoid wastage. 1.68 ±0.02 at 25°C 4.01 ±0.02 at 25°C 6.86 ±0.02 at 25°C 7.00 ±0.02 at 25°C 9.18 ±0.02 at 25°C 10.01 ±0.02 at 25°C 12.45 ±0.02 at 25°C

ONLINE CONTROLLERS, TWO WIRE TRANSMITTERS FROM M/S B&C, ITALY

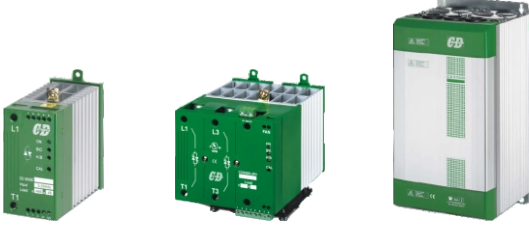
pH . REDOX . CONDUCTIVITY . CHLORINE

DIGITAL CONTROLLER Model pH7615/ mV7615/ C7615/ CL7615	DIGITAL TWO WIRE TRANSMITTER Model pH3630/ mV3630/ C3630/ CL3630	µP TWO WIRE TRANSMITTER Model pH3436/ C3436/ CL3436
 Panel Mounting	 DIN Rail/ Wall Mounting	 DIN Rail/ Wall Mounting
* Display: 3½ Digit LED * pH Range: 0.00-14.0 * ORP Range: ± 1000mV * Cond. Range: 0-200.0mS * Chlorine Range: 0-5.00PPM * Resolution: 0.01pH/PPM /mS, 1mV, 0.1°C * Analog Output: 4 – 20 mA Non Isolated * Power Supply: 110/220 VAC ±10 50/60 Hz	* Display Type: LCD * pH Range: 0.00-14.00 * ORP Range: 0- 1000mV * Cond. Range: 0 -20.00mS * Chlorine Range: 0-2.000 /20.00/200.0 PPM * Resolution: 0.01pH/PPM /mS, 1mV, 0.1°C * Analog Isolated Output: 4 – 20 mA Loop * Power Supply: 10/30 V DC	* Display Type: Alphanumeric LCD * pH Range: 0.00-14.00 * ORP Range: ± 2000mV * Cond. Range: 2µS -2000mS * TDS Range: 0-100 /1000/10000 PPM * Chlorine Range: 0-2.000 /20.00/200.0 PPM * Resolution: 0.01pH/PPM /mS, 1mV, 0.1°C * Analog Isolated Output: 4 – 20 mA Loop * Digital Out: RS 485-ASCII Modbus * Power Supply: 10/30 V DC
µP CONTROLLERS Model pH7685/ C7685/ CL7685	µP CONTROLLERS Model pH7687/ C7687/ CL7687	µP CONTROLLERS Model pH6587/ C6587/ CL6587 / CL6587.103
 Panel Mounting	 Panel Mounting	 Wall Mounting
* pH Range: 0.00-14.00 * ORP Range: ± 1000mV * Cond. Range: 2µS -2000mS * Chlorine Range: 0-2.000 /20.00PPM * Resolution: 0.01pH/PPM /mS, 1mV, 0.1°C * Analog Output: 4 – 20 mA Isolated * Dual Control Relays & Alarm * Power Supply: 110/220 VAC ±10 50/60 Hz	* Display Type: Multiline Graphic * pH Range: 0.00-14.00 * ORP Range: ± 2000mV * Cond. Range: 2µS -2000mS * Chlorine Range: 0-2.000 /20.00/200.0PPM * Resolution: 0.01pH/PPM /mS, 1mV, 0.1°C * Dual Analog Output: 4 – 20 mA Isolated * Autoclean Function Inbuilt * Control Relays with PID Action * Power Supply: 85 – 264 VAC 50/60 Hz * IP65 Front Panel	* Display Type: Multiline Graphic * pH Range: 0.00-14.00 * ORP Range: ±2000mV * Cond. Range: 2µS -2000mS * Chlorine Range: 0-2.000 /20.00/ 200.0 PPM * Resolution: 0.01pH/PPM /mS, 1mV, 0.1°C * Dual Analog Output: 4 – 20 mA Isolated * Autoclean Function Inbuilt * Control Relays with PID Action * CL6587.103 Analyser with pH Compensation * Power Supply: 85 – 264 VAC 50/60 Hz * IP65 Wall Mounted
DISSOLVED OXYGEN	TURBIDITY / ION	UNIVERSAL
µP OPTICAL DO CONTROLLERS Model OD7635 / OD7685.010 / OD7685.110	µP TURBIDITY / ION CONTROLLERS Model TU7685/ IC7685/ IC7685.010	UNIVERSAL CONTROLLERS Model pH7635/ C7635/ CL7635/ OD7635/ BC7635
 Panel Mounting	 Panel Mounting	 Panel Mounting
* DO Range: 0-20.00 PPM & 200% Air Saturation * Input: Optical/ Galvanic/ Polarographic * Pressure: 500/850mmHg * Salinity: 0/60,000PPM * Autoclean Function Inbuilt * Dual Analog Output: 4 – 20 mA Isolated * Power Supply: 110/220 VAC (for 7685)/ 85–264 VAC 50/60 Hz (for 7635)	* Turbidity Range: 0-4.000/40.00/400.0/4000 NTU * Resolution: 0.05% of Scale * Sensitivity: 80.0/120.0% * Autoclean Function Inbuilt * IC Controller Range: 0-10.00/100.0/1000 PPM * Application: Nitrate/Ammonium/fluoride * Chloride/Calcium/Water Hardness etc. * Analog Output: 4 – 20 mA Isolated * Power Supply: 110/220 VAC ±10 50/60 Hz	* Display Type: Red 7 Segment LED 4 Digit * pH Range: 0.00-14.00 * ORP Range: ± 1000mV * Cond. Range: 2µS -2000mS * Chlorine Range: 0-2.000 /20.00PPM * Resolution: 0.01pH/PPM /mS, 1mV, 0.1°C * Analog Output: 4 – 20 mA Isolated * Power Supply: 85 – 264 VAC 50/60 Hz * BC7635 Universal Controller * For DO & TSS Transmitter Probe * Selectable Scale: -1999 - +9999

ONLINE SENSORS & ASSEMBLIES FROM M/S B&C, ITALY

INDUSTRIAL pH/ REDOX SENSOR & AUTO CLEAN ASSEMBLIES FROM TOSHNIWAL	2 ELECTRODE CONDUCTIVITY PROBE FROM TOSHNIWAL	2 ELECTRODE CONDUCTIVITY PROBES	TOROIDAL CONDUCTIVITY TRANSMITTER PROBE
 CAPJE T7 TPRO Auto Clean Assembly * pH Range: 0-14 pH/Redox ± 1500 mV * Temp. Rating: 0°-80°/ 105°/ 120° C * Ref. Junction: Teflon/ Ceramic * Body: Rytin/ Delrin/ Glass/ PTFE * Sol. Ground & Temp. Comp. Optional * Process Connections: 3/4" MNPT/ 1/2" BSP * Compatible with most Analyzers available. * Auto Clean Assembly: For T7/ TFERM/ TPRO/ CAJIT; MOC: 316 SS/ PVC/ PTFE	 TCI-01 TCI-001 TCI-1 * Cell constant (cm⁻¹) 0.01/ 0.1/ 1.0/ 10 * Electrode material SS316L * Body material PVDF / SS316L * Sensor Diameter 12mm/ 19mm * Insertion Length 27mm / 80mm * Process connection 3/4" NPT * Temp. Range -10 to 120° C / -10 to 150° C	 SZ 3273.1 SZ 3320.1 SI 308T * Sensor SZ3273.1 (K=1) Range: 0 to 80mS; Temp.: 0-80° C * E. Conductivity Sensor SZ3320.1 (K=0.1) Range: 0 to 2000µS; Temp.: 0-150° C * High Purity Water Cond. Sensor SI308T (K=0.01) Range: 0 to 20.00µS; Temp.: 0-50° C	 SI 315 ST 315 ST 3254.3 * Toroidal E. Conductivity Sensor SI315 Range: 2000µS to 20S * Toroidal E. Conductivity Sensor with Transmitter ST3254.3 (Loop Powered) Range: 0 to 1000mS * Toroidal E. Conductivity Sensor with Micro-Transmitter ST315 Range: 2000µS to 20S
FREE / RESIDUAL CHLORINE SENSORS & FLOW CELL	POLAROGRAPHIC MEMBRANE SENSORS WITH FLOW CELL	OPTICAL/ GALVANIC DISSOLVED OXYGEN AUTO CLEAN PROBES	OPTICAL DISSOLVED OXYGEN TRANSMITTER PROBE WITH AUTO CLEAN
 SZ 283 SZ 7251 SZ 7231 * Potentiostatic Sensor for Cl⁻/ O₂/ ClO₂ SZ 283 - 0/ 2.000/ 20.00 ppm Membrane less, maintenance free * Auto Clean Flow Cell SZ7251 Transparent body: acrylic Balls: 20 numbers into the body Inlet/outlet: 1/8" fittings; Temp.: 0 to 50° C Flow: 15 to 40 liter/hour constant	 * CL7901- For Free Chlorine * OZ7901- For Dissolved Ozone * Response Time: 90% in 60 s * Temp. Sensor: RTD Pt100 built-in * Temp. Limits: 5/+55 °C * Material: Noryl and stainless steel * Type of cell: Overflow system * Material: Clear acrylic; Inlet: 25/110 ltr/hr	 SZ 654.1 OD 8182 OD8382 * Polarographic Sensor: SZ654.1 Range: 0-20 ppm/ 0-20.00 mg/l Temp. Range: 0-45° C; Cable: 5 mtr. * Optical DO Probe with Auto clean: OD8382: Range 0-20 ppm * Galvanic Membrane Sensor with Auto clean: OD8182 Range: 0-20 ppm	 OD8325 OD8525 FLOW CELL * OD8325 (submersible) * OD8525 (in-line) mount through Flow Cell (without autoclean) * Scale: 0/20 ppm - 0/200 % air * Analog output: 4/20 mA isolated current Loop * Load: 600 Ω max. at 24 VDC * Digital output: RS 485 * Power supply: 9/36 VDC
TURBIDITY PROBE WITH FLOW CELL	AUTO CLEAN/ SUBMERSIBLE TURBIDITY PROBE	OPTICAL TSS TRANSMITTER PROBE WITH AUTO CLEAN	ION SELECTIVE ELECTRODE & CHEMISTRY MODULE
 TU810/ TU8105 TU 910 Measuring Method: Nephelometric (ISO 7027-EN 27027) TU810: LED IR based probe (PVC) TU8105: Tungsten lamp (PVDF) Range: 0 to 4/40/400/4000 NTU Response Time: 10 Sec. Sample Temp.: 0 to 50° C TURBIDITY FLOW CELL (TU910): Flow Cell for TU810/ TU8105	 TU 8182 TU8182: IR based Turbidity optical probe with submersible & auto clean Range: 0 to 4/40/400/4000 NTU Response Time: 10 Sec. Internal Sensor: for dry cell & dirty lens checking Pressure of the Sample: 6 Bar Protection: IP68; Cable Length: 10 mtrs.	 TU8355 TU8555 TU910 TU8355 (submersible) TU8555 (in-line) mount through Flow Cell TU910 (without autoclean) Scale: 0 to 10,000 FTU Analog output: 4/20 mA isolated current Loop Load: 600 Ω max. at 24 VDC Digital output: RS 485 Power supply: 9/36 VDC	 Application: Fluoride, Chloride, Calcium, Nitrate, Ammonium, Water Hardness Chemistry Module: Supplied with ISE Sensor Peristaltic pump sample, flow 5 cc/min Peristaltic pump ISA reagent, flow 0.06 cc/min Sample inlet/ drain: 1/4" I.D. hose barb Connect with IC7685.010
SUBMERSIBLE / IN-LINE ASSEMBLIES	ONLINE / INDUSTRIAL pH/ REDOX ASSEMBLY	WATER TIGHT ENCLOSURES FOR TRANSMITTERS	WATER TIGHT ENCLOSURES FOR CONTROLLERS
 SZ810 SZ8808 SZ7101 SZ7108 * SZ810: L=210mm; Moc=PP * SZ8808: L=1170mm; Moc=SS316 * SZ7101: L=110mm; Dia=25mm; Moc=PVC * SZ7108: L=110mm; Dia=25mm; Moc=SS316 * Model of assemblies depends on the length & dia of the pH Sensor.	 T3ECO T7ECO * pH/ ORP Range: Depends on the chosen Sensor Model: TPRO, CAPJ, CAJ, CAPJE, MQJ, MQJI or MQPJE. * Temperature Rating of the Housing: 0° to 105° C (PVDF); 0° to 80° C (PP) * Body: PVDF/ PP * Connections: Process 3/4 & 1 inch MNPT front and 3/4 inch rear facing connections	 BC9408 BC9404.1 BC 9408 * Enclosure for 1 unit (3630) * Protection: IP 65 (NEMA 4X) * Dimensions: 205 x 220 x 140 mm BC 9404.1 * Enclosure for 1 transmitter (3436) * Protection: IP65 * Dimensions: 143x210x100 mm	 BC931.2 (one unit) BC931.3 (two units) * Watertight enclosure with transparent front door suitable for installation of one unit (BC 931.2)/ two units (BC 931.3) 7687,7685, 7635 or 7615. * Protection: IP 65 (NEMA 4X) * Size: 270x180x238 mm

PROCESS/ TEMP. PID CONTROLLERS/ PROGRAMMERS & INDICATORS FROM M/s WEST INSTS., U.K.	
WEST P6100/ P8100/ P4100 SELF TUNE PROCESS CONTROLLERS  * Full PID with Pre-tune, Self-tune and manual Tuning modes * Max. 3 outputs possible i.e. Heat/ Cool/ Alarms/ Re-transmission (SP or PV)/ 24VDC TPS with Universal Inputs * RS-485 Communication/ Dual set point/ RSP optional available * On-line current display on the front of the controller & Heater Break/ Short Circuit Partial Load failure alarm available optionally (models N6600/8600) Common Features: Auto/ Self/ Manual tuning with bumpless transfer, Universal I/P (T/c, RTD, mA/mV/V DC linear), wide choice of O/p's (SSR, Relay, DC linear), SMPS 90-264 VAC, 24 V AC/DC (optional), IP65, CE, UL approved, Accuracy $\pm 0.1\%$ of FSD ± 1 LSD, Available with all three DIN sizes 1/4 DIN, 1/8 DIN & 1/16 DIN	CAL MAXVU TEMPERATURE & PROCESS CONTROLLER  * 1/8 DIN (96 x 48mm) and 1/16 DIN (48 x 48mm), 2 x 4 digit High visibility display -18mm PV & 10.2mm SP in 1/16 DIN controller, Depth 67mm * Universal input- Thermocouple, PT100 or linear DC linear * Up to 3 outputs choice - Relay or SSR * 2 process alarms, high/low, deviation or band. * 3 button operation, 3 output status LEDs * RS485 Modbus RTU communications * Front panel configuration or via PC configuration software * Standard CE, UL & ULC
WEST RAPID FUZZY LOGIC PROFILE CONTROLLER P6400  * PID with Pre-tune and RaPID fuzzy logic, or Manual Tuning. Heat or Heat/Cool, applications * Output Configuration Up to 3 total. Max 2 for control (Heat & Cool)-Relay/SSR/D.C. Linear, max 2 for Alarms, max 1 for retransmit PV or SP * Human Interface 4 buttons, 10mm & 8mm high LED's, plus run-hold, tune, event & profile/control status LED's, 1/16 DIN size * Number of Programs 4, each with 16 free-form segments (Ramp/ Dwell/ End). Max segment length 99 hours 59 minutes * Power Loss Recovery Hot (continue profile from point of power fail) or Cold (end profile and return to controller mode) * Auto/Manual Selectable from front panel, with bumpless transfer * Event/profile active outputs *Delayed start *Remote Start *Guaranteed soak *Modbus RS485 comms *Power fail recovery *PC support software	PRO-EC44 SINGLE OR TWO LOOP ADVANCED CONTROLLER WITH GRAPHIC DISPLAY  * Single or Two Loop 1/4 DIN controller, ON/OFF, PID heat only & Heat/Cool, Master Slave Control, Valve Motor Drive, Ratio Cascade Control * Single set point or Profiler 256 segments shared in 64 programs * Graphical / text LCD Display (red/ green) * Faster Sampling rate 100mSec. * Data logger with real time clock * Up to 2 analogue inputs, 9 outputs, remote setpoint input, 9 digital inputs * 5 PID sets manual or automatic gain scheduling * 7 Alarms – absolute, deviation, rate of change, sensor break, recorder memory, power, event * USB host for configuration (read/write) and logged data (read) * Ethernet – Modbus TCP, RS485 - Modbus RTU (Master/Slave) * Standards CE, UL
WEST P6170/ P8170/ P4170 SELF TUNE VMD CONTROLLERS  * Dual Relay output for opening & closing of the motorized control valve * Full PID with Pre-tune, Self-tune and manual Tuning modes * Auto/ Manual bumpless transfer * Max. 3 outputs possible i.e. Valve open/ Close/ Alarms/ Re-transmission (SP or PV)/ 24VDC TPS * Universal I/P (T/c, RTD, mA/mV/V DC linear) * RS-485 Communication/ Dual set point/ RSP optional available * SMPS 90-264 VAC, 24 V AC/DC (optional), IP 65, CE, UL approved * Display Accuracy $\pm 0.1\%$ of FSD ± 1 LSD * Available with all three DIN sizes 1/4 DIN, 1/8 DIN & 1/16 DIN	WEST P6010/ P8010/ N8080 µP BASED PROCESS INDICATORS  * 4/ 5 digit Process indicators * Up to 5 alarms (latching or non-latching), Max. 3 single/ 2 dual relay/ Max. 1 retransmit of PV/ Max. 1 transmitter power supply * 13mm high display Red, Green or Red/ Green (colour change on Alarm) * Min./ Max. value hold, Tare (auto zero) function, multi point scaling * Modbus & ASCII communication * Display Accuracy $\pm 0.1\%$ / $\pm 0.01\%$ of FSD ± 1 LSD, IP 65, CE, UL approved * Available in 1/16, 1/8 DIN sizes

THYRISTORISED POWER CONTROLLERS FOR ELECTRIC HEATER CONTROL APPLICATIONS	
CD 3000S 1 PH/ 2 PH/ 3 PH  * Available from 15-700A/240-480-600V AC * Input SSR 3-30VDC/110 or 230VAC/ 4-20 mA loop Powered * Firing option Zero Cross over/ Burst firing * Heater Break Alarm available as optional feature * High Speed fuse protection * Operating temp 0-40°C up to 110A, for Higher temp ref. derating curve * IP 20 Protected & Comply with EMC Specification CE & UL	CD 3000M 1 PH/ 2 PH/ 3 PH 15 to 700 Amp.  * μP based electronic circuit fully isolated from power * Digital & Universal thyristor configurable via RS485 serial comm. * Universal Firing ZC/BF with HB Alarm * Universal Input SSR/4-20mA/0-10V/ 10kPot/RS-485 modbus * High Speed fuse protection * Line drop voltage compensation $\pm 15\%$ of supply voltage with analogue Input * Operating temp 0-40°C up to 110A, for Higher temp ref. debating curve * IP 20 Protected & Comply with EMC, CE & UL
CD 3200-1 PH CD 3000E-2 PH/ 3 PH 15 to 700 Amp.  * Full Digital & Universal Based on a very Powerful dedicated micro configurable via Comm Port for all Input, Firing, Feedback & Load type * Universal Input SSR/4-20mA/0-10V/ 10kPot/ RS-485 modbus Sr. Comm. * Universal Firing ZC/BF/SC/DT/S+BF/ S+PA & soft start with adjustable current limit by Pot. or serial comm. * Suitable to drive resistive, inductive, transformer & complex load require current limit & soft-start. * Selectable feedback V, I or VXi * AI/AO/DI/DO available for external limit, retransmission, start, stop, calibration, HB Alarm & Reset alarm etc.	Multi Drive 1 PH/ 2 PH/ 3 PH 25 to 2600 Amp.  * Full Digital & Universal Thyristor Based on a very Powerful dedicated micro configurable via Comm Port for all Input, Firing, Feedback & Load type * Universal Input SSR/4-20mA/0-10V/ 10kPot/ RS-485 modbus Sr. Comm. * Universal Firing ZC/BF/SC/DT/S+BF/ S+PA & soft start with adjustable current limit by Pot. or serial comm. * Suitable to drive resistive, inductive, transformer & complex load. * Selectable feedback V, I, VXi, Ex- 0-10V * AI/AO/DI/DO available for external limit, retransmission, start, stop, calibration, HB Alarm & Reset alarm etc.
REVO-C-1PH/ 2PH/ 3PH THE CONNECTING UNIT 50 to 500 Amp. Smart Phone App.  * Suitable to drive Normal resistance, Cold resistance & Transformers. Voltage 480V, 600V & 690V. * Universal input -4-20mA/ 0-10V/ Pot. /Communication * Universal firing - SC/BF/S+PA/ZC, Universal feedback-Volts, Current Volt square, Current Square, Power, External, various AI/AO/DI/DO for smooth control of heating control system. * It's main features is the connectivity & all the most popular field bus are available including Wi Fi. * Universal because all inputs, all firing and control mode can be configured via: Smartphone using CD Automation connect –APP or via personal computer with CD Automation configurator software. * OLED display of easy configuration and diagnostics. * Internal fuses for complete range. * CE EMC & cUL approved	REVO-PN MULTI-CHANNEL THYRISTOR Suitable to control Electric Heaters & IR Lamps  * Nominal current in continuous service 25A Max for each load * From 4 up to 24 independent 25A channels. * Burst Firing, Half-Single-Cycle control. * Built-in extra-rapid fuses easy to replace. * Voltage swing compensation. * Diagnostics of SCR temperature, SCR short circuit, open fuse. * Thyristor Units with high I2T * Communication * 480V Max Voltage Synchronizing Circuit * Integrated Extra Rapid fuse Digital Input and Relay Output * This product meets modern connectivity needs REVO PN responds to the modern need for connectivity, data acquisition, monitoring and diagnostics of industrial plants through the most widely used field bus systems