

LABORATORY pH / REDOX / CONDUCTIVITY / ION SELECTIVE ELECTRODES			
<p>pH ELECTRODE CA 11</p> 	<p>pH / REDOX ELECTRODE CAPJ/ MQPJ (Plastic Body, Gel Filled)</p> 	<p>pH ELECTRODES WITH 5 POINT CALIBRATION CAF-11 / CAFGG</p> 	<p>pH ELECTRODES WITH 5 POINT CALIBRATION UNBREAKABLE CAFFP11</p> 
<p>* 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</p>	<p>* pH range: 0-14 pH/ ±2000 mV * Temp range: -5 to 80°C * No. of Junction: Double * Membrane Glass: Green (CAPJ) * Reference System: Ag/ AgCl * Reference Electrolyte: HGel+ * Diaphragm: Ceramic * Temp. Comp.: Pt100/ Pt1000 (inbuilt) * Shape of Membrane: Spherical (CAPJ) Platinum: Spiral/ Disc (MQPJ) Gold: Disc/ Rod (MQPJ) * Shaft Material: Plastic</p>	<p>* 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+</p>	<p>* 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</p>
<p>pH ELECTRODE (FLAT SURFACE) CAPFS/ CAPJFS (Unbreakable, KCl/ Gel Filled)</p> 	<p>NON AQUEOUS pH ELECTRODE CAFD-Li</p> 	<p>pH ELECTRODE (SEMI-MICRO) CASM / CAM Glass Body, KCl Filled</p> 	<p>pH ELECTRODE CAS / CAS-K Soil / Cheese & Meat</p> 
<p>* 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</p>	<p>* 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</p>	<p>* pH range: 0-14 pH * Op. Temp.: -5 to 80°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 & 40x6mm (CASM) * Shaft Length: 60x12 & 60x3mm (CAM) * Connector Type: BNC/ S7</p>	<p>* pH Range : 0 - 14 * Operating Temp. : -5 to 80°C * No. of Junctions : Double * Membrane Glass : Green * Reference Electrolyte : HGel+ * Diaphragm : Teflon * Shape of Membrane : Conical * Sample Consistency : Solid / Semi-solid * Shaft Material (CAS) : Plastic * Shaft Material (CAS-K): ABS, Plastic & SS304 (Knife)</p>
<p>ORP/ REDOX ELECTRODE MQ-17 (Glass, KCl Filled)</p> 	<p>LABORATORY CONDUCTIVITY PROBES (GLASS) TCC-1 / TCC-01</p> 	<p>LABORATORY / INDUSTRIAL CONDUCTIVITY CELL (PLASTIC) TCP 01 / TCP 1</p> 	<p>ION SELECTIVE ELECTRODES TISE</p> 
<p>* 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</p>	<p>* 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</p>	<p>* Electrode Material : Graphite * No. of Electrode : 2 Electrodes * Body Material : Plastic * Cell Constant : 0.1 cm⁻¹ & 1 cm⁻¹ * Measuring Range : 0 - 2 mS & 20 mS * Sensor Diameter : 12 mm * Temp. Range : -5 to 80°C * Temp. Comp. : Inbuilt (optional) * Connector : BNC & Lugs</p>	<p>* Slop (mV/ decade): (Monovalent) 54 to 59 (Divalent) 25 to 29 * Temp. Range : 0-50°C / 5-50°C * Length : 155 mm * Diameter : 12 mm * Reference Type : Single Junction Ag/ AgCl * Body Type : Polymer Species Limits (ppm) Fluoride (F⁻) : 0.02 to 1,900 Nitrate (NO₃⁻) : 0.40 to 62,000 Calcium (Ca⁺⁺) : 0.02 to 4,010 Potassium (K⁺) : 0.04 to 39,000 Ammonium (NH₄⁺) : 0.90 to 9,000 Cadmium (Cd⁺⁺) : 0.10 to 11,200 Cyanide (CN⁻) : 0.03 to 260 etc. etc.</p>

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ONLINE pH / REDOX / CONDUCTIVITY ELECTRODES

<p>pH ELECTRODE CAH 11D / CAH 42D</p>	<p>pH / REDOX ELECTRODES CAPJE / MQPJE Plastic Body, Gel Filled</p>	<p>pH / REDOX ELECTRODES CAJI / MQJI Borosilicate Body, Gel Filled</p>	<p>pH / REDOX ELECTRODE FOR HIGH TEMPERATURE TPRO / TRO</p>
			
<p>* 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</p>	<p>* pH range: 0-14 pH/ ±2000 mV * Temp range: -5 to 100°C * No. of Junction: Double * Membrane Glass: Green * Reference System: Ag/ AgCl * Reference Electrolyte: HgCl+ * Diaphragm, Nos.: Ceramic, 2 * Temp. Comp.: Pt100/ Pt1000 (inbuilt) * Shape of Membrane: Spherical (CAPJE) Platinum: Spiral/ Disc (MQPJE) Gold: Disc/ Rod (MQPJE) * Shaft Material: Polycarbonate (Plastic)</p>	<p>* pH / ORP Range : 0 - 14 (CAJI) / ±2000 mV (MQJI) * Operating Temp. : -5 to 100°C * No. of Junctions : Double * Membrane Glass : Green (CAJI) * Reference System : Ag/ AgCl * Reference Electrolyte : HgCl+ / CLP+ * Diaphragm : Annular Ceramic, Additional Ceramic * Shape of Membrane : Spherical (CAJI)/ Platinum Disc (MQJI) * Shaft Material : Borosilicate</p>	<p>* pH Range : 0 - 14 (TPRO) ±2000 mV (TRO) * Operating Temp. : -5 to 100°C * No. of Junctions : Double * Membrane Glass : Green (TPRO) * Pressure : Up to 6 Bar at 25° C * Reference System : Ag/ AgCl with ION Trap technology * Reference Electrolyte: CLP+ * Diaphragm : Dual Teflon * Shape of Membrane : Platinum Spiral / Disc (TRO) * Shaft Material : Borosilicate</p>
<p>ELECTRODE TFERM FOR AUTOCLAVABLE, STEAM STERILIZABLE INDUSTRIAL APP.</p>	<p>ELECTRODE TPURE/ TPURE-ECO HIGH PERFORMANCE FOR ULTRA-PURE/ DE-IONIZED WATER APPLICATION</p>	<p>INDUSTRIAL pH / ORP ELECTRODE TCHEM / TRCHEM</p>	<p>ONLINE / INDUSTRIAL pH/ REDOX SENSOR TOSHCON T3</p>
			
<p>* 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+ HardGel * Diaphragm, No.: Ground Glass, One * Shape of Membrane: Spherical * Shaft Length: 120, 225, 325, 425mm</p>	<p>* 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)/ HgCl+ (TPURE-ECO) * Diaphragm, No.: Ground Glass, One/ Ceramic (TPURE)/ Three (TPURE-ECO) * Connector Type: BNC/ S8/ Variopin</p>	<p>* pH / ORP Range : 0 - 14 (TCHEM) ±2000 mV (TRCHEM) * Operating Temp. : -5 to 100°C * No. of Junctions : Double * Membrane Glass : Green (TCHEM) * Reference System : Ag/ AgCl * Reference Electrolyte: HgCl+ / CLP+ * Diaphragm : Annular Ceramic, Additional Ceramic * Shape of Membrane : Spherical (TCHEM)/ Platinum Disc (TRCHEM) * Shaft Material : Glass</p>	<p>* 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 MNPT front and ¼ inch rear facing connections * Cable Length: Standard Three Meter/ Nine Feet Low Noise Cable * Compatible with most Analyzers available.</p>
<p>ONLINE CONDUCTIVITY PROBES TC-SS01, TC-SS-1</p>	<p>ONLINE/ INDUSTRIAL CONDUCTIVITY PROBES TC 01, TC 1 & TC 10</p>	<p>ONLINE/ INDUSTRIAL CONDUCTIVITY PROBES TCI-01/ TCI-001/ TCI-1</p>	<p>ONLINE / INDUSTRIAL pH/ REDOX ASSEMBLY TOSHCON T3ECO</p>
			
<p>* Electrode material 0.1 K SS316L 1 K SS316L * Cell Constant 0.1 cm⁻¹ 1.0 cm⁻¹ * Measuring Range 0 - 2 mS 0 - 20 mS * Sensor Diameter 12mm 12mm * Insertion Length 120/220mm 120/220mm * Temp. Range 0 to 80°C 0 to 80°C</p>	<p>Electrode material 0.1 K SS316L 1 K SS316L 10 K SS316L Body material Teflon Teflon Teflon Cell Constant 0.1 cm⁻¹ 1.0 cm⁻¹ 10.0 cm⁻¹ Measuring Range 0 - 2 mS 0 - 20 mS 0 - 200 mS Sensor Diameter 19mm 19mm 19mm Insertion Length 35mm 15mm 15m Temp. Range 0 to 80°C 0 to 80°C 0 to 80°C</p>	<p>* 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</p>	<p>* Body: PVDF/ PP * Temperature Rating of the Housing: 0° to 105°C (PVDF); 0° to 80°C (PP) * Connections: Process ¾ inch MNPT front and ¼ inch rear facing connections * Suitable for pH/ Redox Sensor Model: TPRO, CAJI, CAPJE, MQJ, MQJI or MQPJE.</p>

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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
 <p style="text-align: right; color: red;">Panel Mounting</p>	 <p style="text-align: right; color: red;">DIN Rail/ Wall Mounting</p>	 <p style="text-align: right; color: red;">DIN Rail/ Wall Mounting</p>
<ul style="list-style-type: none"> * 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 	<ul style="list-style-type: none"> * 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 	<ul style="list-style-type: none"> * 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
 <p style="text-align: right; color: red;">Panel Mounting</p>	 <p style="text-align: right; color: red;">Panel Mounting</p>	 <p style="text-align: right; color: red;">Wall Mounting</p>
<ul style="list-style-type: none"> * 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 	<ul style="list-style-type: none"> * 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 	<ul style="list-style-type: none"> * 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
 <p style="text-align: right; color: red;">Panel Mounting</p>	 <p style="text-align: right; color: red;">Panel Mounting</p>	 <p style="text-align: right; color: red;">Panel Mounting</p>
<ul style="list-style-type: none"> * 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) 	<ul style="list-style-type: none"> * 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 	<ul style="list-style-type: none"> * 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

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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
			
<p>* pH Range: 0-14 pH/ Redox ± 1500 mV * Temp. Rating: 0°-80°/ 105°/ 120°C * Ref. Junction: Teflon/ Ceramic * Body: Rytan/ 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</p>	<p>* 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</p>	<p>* 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</p>	<p>* 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</p>
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
			
<p>* 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</p>	<p>* 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</p>	<p>* 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</p>	<p>* 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</p>
TURBIDITY PROBE WITH FLOW CELL	AUTO CLEAN/ SUBMERSIBLE TURBIDITY PROBE	OPTICAL TSS TRANSMITTER PROBE WITH AUTO CLEAN	ION SELECTIVE ELECTRODE & CHEMISTRY MODULE
			
<p>TU810/ TU8105 TU 910 Measuring Method: Nephelometric (ISO 7027 - EN 270207) 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</p>	<p>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.</p>	<p>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</p>	<p>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</p>
SUBMERSIBLE / IN-LINE ASSEMBLIES	ONLINE / INDUSTRIAL pH/ REDOX ASSEMBLY	WATER TIGHT ENCLOSURES FOR TRANSMITTERS	WATER TIGHT ENCLOSURES FOR CONTROLLERS
			
<p>* 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.</p>	<p>* 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</p>	<p>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</p>	<p>* 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</p>

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ONLINE BOD / COD / TSS / TOC MONITORING SYSTEM MODEL T-BCTT



TOSHCON offers innovative technical products with our expertise in the fields of electronics, optics, mechanics and computer programming systems.

Our **Environment Department** is specialized in **online monitoring system of water quality or effluent management** by parameter measurements.

UV Probe system enables online measurements and real-time monitoring of parameters such as **COD, BOD, TOC, TSS and SAC**.

Presentation:

The **UV Probe** is a multi-parameter online measurement probe for **continuous** and independent quality **control of water and effluent**. It measures the SAC (Spectrum Absorption Coefficient) directly.

It also provides by correlation the measurement of the TOC or COD or BOD and the Total Suspended Solids from the SAC measurements and laboratory measurement references.

Applications:

- Fresh water
- Treatment plant water
- Industrial effluent
- Process water

10 main Advantages:

- No re-agent or prior filtration (measurement principle)
- Self-cleaning measurement cell (compressed air)
- Ultra-low running cost (no conditional need)
- 100% autonomous & secured (analysis)
- UV led (ultra long life)
- No spare part (light maintenance)
- Stainless steel 316L (strong enclosure)
- Plug and measure fast (connection)
- Waterproof IP68 (probe and connector)

Probe Description:

The probe measures quality water parameters in different water types (used, effluent, process) immersed down to 10 meters depth.

The probe is directly connected to the transmitter within an IP68 connector and a submarine type cable.



	PROBE
Dimensions	Ø 55 mm and 250 mm length
Enclosure	Stainless steel 316 L
Protection	IP 68 1 bar 10 meters
Weight	5 kg
Ambient T°	0 - 40°C
Power Supply	90 - 250 V 50/60 HZ 15 W
Light source detector	LED

TOSHNIWAL INSTRUMENTS MANUFACTURING PVT. LTD.,

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Email: info@toshcon.com, support@toshcon.com; Website: www.toshcon.com

REGD OFFICE: 401, Manish Chamber, Sonawala Cross Lane, Goregaon (E), MUMBAI - 400 063

Transmitter Description:

The transmitter collects the digital signals coming from the probe and processes them in order to determine the SAC and the concentrations in COD and Suspended Solids.

	TRANSMITTER
Dimensions	130 x 130 x 110 (mm)
Material Box	Polycarbonate
Protection	IP 65
Keyboard	Sensitive



Configuration System:

Parameter Choice

Measurements	
0.0	COD mgO ₂ /l
0.0	TSS mg/l
23/06/2019	12:00:00

Maintenance Free

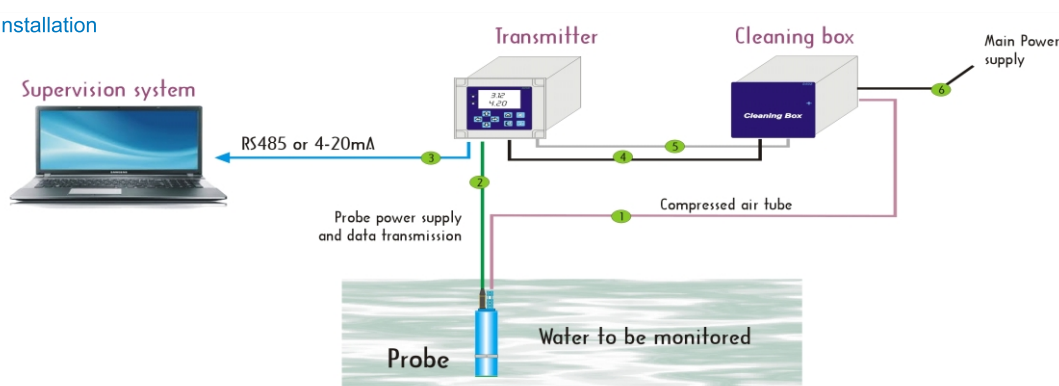


6 Analysed Parameters:

- COD (mgO₂/L)
- BOD (mgO₂/L)
- TOC (mgC/L)
- TSS (mg/L)
- SAC (UA/m)
- COLOR (mgPt/L)

	MEASUREMENT RANGE
COD	0 - 1000 mgO ₂ /L (1%)
BOD	0 - 500 mgO ₂ /L
TOC	0 - 400 mgC /L
TSS	0 - 1000 mg/L (1%)
SAC	0 - 600 UA/m
COLOUR	mgPt/L

Installation



Integration



Process Features:

Setup

< 1	Setup	>
2	Calibration	
3	Data export.	
4	Maintenance	

Date / time

Hour	Min	sec
14	03	52
Day	Month	Year
10	01	17

Analog out

AO1 settings	
Param.	COD
LO range:	0
HI range:	1000

Alarms

DCO Alarm settings	
Enable	Yes
Min DCO :	100
Output	D01

Micellaneous

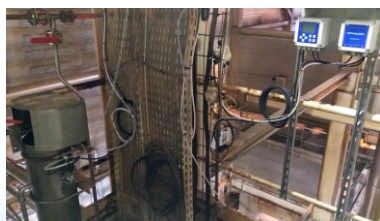
< 1	Mbus Adr 1	>
2	Password Disa	
Modbus adr. : 0		

Analysis

< < CH 1 Param> >	Trigger	TIMER
< Period mn 1 >	Pulse src	NONE
	Gate src	NONE
	Gate Out	NONE

Example of Type Installation:

- Food industrial site
- Main required analysed parameter COD
- Monitoring before water injection into main process
- Full system with probe, transmitter and air cleaner boxes



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PROCESS/ TEMP. PID CONTROLLERS/ PROGRAMMERS & INDICATORS FROM M/s WEST INSTS., U.K.

PRO-EC44 SINGLE OR TWO LOOP ADVANCED CONTROLLER WITH GRAPHIC DISPLAY



- Single or Two Loop 1/4 DIN controller, ON/OFF, PID heat or Heat/Cool, Master Slave, 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 DI
- 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 P6100/ P8100/ P4100 SELF TUNE PROCESS CONTROLLERS



- Full PID with Pre-tune, Self-tune and manual Tuning modes
- Universal I/P (T/c, RTD, mA/mV/V DC linear)
- Accuracy $\pm 0.1\%$ of FSD ± 1 LSD
- Wide choice of Plug in type O/p's (SSR, Relay, DC linear)
- Max. 3 outputs possible i.e. Heat/ Cool/ Alarms/ Re-transmission (SP or PV)/ 24VDC TPS with Universal Inputs
- Remote setpoint input for Cascade or master slave application
- RS-485 Communication/ Dual set point/ RSP optional available
- Auto/ Self/ Manual tuning with bumpless transfer
- SMPS 90-264 VAC or 24 VAC/DC (optional)
- IP65, CE, UL approved
- Available with all three DIN sizes 1/4 DIN, 1/8 DIN & 1/16 DIN

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
- Universal I/P (T/c, RTD, mA/mV/V DC linear)
- Display Accuracy $\pm 0.1\%$ of FSD ± 1 LSD
- Auto/ Manual bumpless transfer
- Max. 3 outputs possible i.e. Valve open/ Close/ Alarms/ Re-transmission (SP or PV)/ 24VDC TPS
- RS-485 Communication/ Dual set point/ RSP optional available
- SMPS 90-264 VAC, 24 VAC/DC(optional), IP 65, CE, UL approved
- 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 with or without latch
- 3 button operation, 3 output status LEDs
- RS485 Modbus RTU communications
- Front panel configuration or via PC configuration software
- Standard CE, UL & ULC

CAL 9500P PROGRAMMABLE TEMPERATURE CONTROLLER



- 31 Programs with up 126 Segments
- Universal input- Thermocouple, PT100 or linear DC linear
- Wide choice of output i.e. SSR, Relay or DC linear
- Event outputs via the 2nd & 3rd outputs
- Copy/ Paste/ Edit/ Delete functions to simplify program building
- 3 power fail recovery options, (Hold, Continue or Reset)
- Remote Configuration via CALgrafix
- Datalogging Software
- P66 front & CE, UL, CSA, FM Approved

N2300 SINGLE LOOP CONTROLLER



- Simple operation for easy setup
- 4 digit red/green digital display
- PID control with manual override tune capability for specialised applications
- Solid state & relay output for primary control & alarms
- RS485 communication option
- 1 x 4-digit LED Display Red or green
- 1/32DIN; 24 x 48 x 110 mm

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REVO C Advance Universal Thyristor



The Connecting Unit is available up to 2100 Amp.

- Ability to drive 1 phase or 3 phase loads using 1-2 or 3 leg switching
- Nominal Voltage 480-600-690V
- 100 KA Short Circuit Current (SCCR) Tested
- Suitable to control any kind of Electrical Heating Element - Resistive, Variable Resistance & Transformer Coupled Load.
- Popular Field Bus connectivity including RS485, Ethernet, Profibus and Profinet
- All input signal selectable via PC or OLED front panel display
- ZC, BF, PA, SC Firing types selectable with capability to switch from one firing to another one while the unit is controlling power to the load
- Control Mode / Feed Back selectable while the unit is working
- Proprietary APP to communicate with Apple and Android Smartphone system
- CE, EAC and cUL approved

REVEX Series Universal Thyristor

The REVEX is available from 30 to 280 Amp.

- The family is available in 1-2-3 phase Units
- Input signal in digital mode, no link jumpers inside
- Firing mode: Single cycle, Half cycle, Burst, Phase Angle, Delayed Triggering, different types of adjustable ramp
- Control Mode (V, V2, I, I2, VxI)
- Communication RS485 with Modbus® protocol std.
- Two Analog inputs
- Two Digital inputs
- USB port to program REVEX, should you ever need to re-program from your ordered configuration



REVO S Burst Fired Thyristor



The REVO S is available up to 800 Amp.

- The family is available in 1-2-3 phase Units
- Voltage range 480V, 600V and 690V
- Input: SSR or Analog Inputs
- Firing: Burst Firing (Fast Zero Crossing)
- Heater Break Alarm to diagnose Partial or Total Load Failure and Thyristor Short Circuit
- Fuse and Fuse Holder up to 40A
- Fixed Fuses from 60 to 800A
- 100 KA Short Circuit Current (SCCR) Tested
- Load type: Resistance, IR Lamp long and medium waveform
- CE, EAC and cUL approved

TOSHCON CD AUTOMATION (INDIA)PVT. LTD., AJMER

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DOSING / METERING PUMPS

TJ-MD SERIES



TJ-MD 8 / 12



TJ-MD 20 / 40 / 100

CHEMICAL DOSING SYSTEM TJ-D-8 / 12 / 20 / 40 / 100



* Capacity 6, 12, 16, 46, 90 Lph at Back Pressure Maximum 10 bar.

* Diaphragm Pumps, Solenoid Driven.

* Also available μ P Controlled DE/ DX models for 0(4)-20mA, Multiplication & division of stroke frequency.

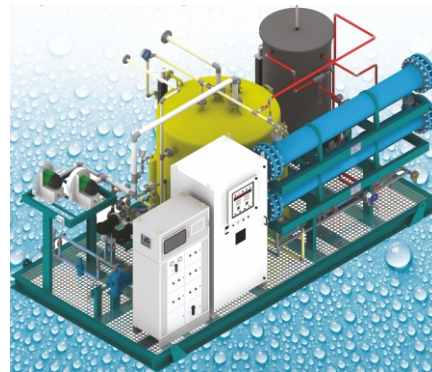
Description	Details
Electromagnetic Reciprocating Type Positive Displacement Dosing Pump	TJ-MD 8 / 12 / 20 / 40 / 100 as per selection
Preparation Tank	FRP
Service Tank	FRP
Motor & Agitator	Standard
Skid	MS Angle duly painted

ELECTRO-CHLORINATORS

Batch Type



Continuous Type



FULL VACUUM CHLORINATORS

All Chlorine related equipments conform to internationally accepted Safety standards.

0-4 Kg/Hr Cl_2 Gas TJ-C2212+



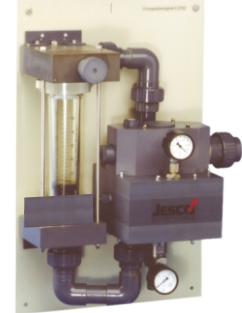
0-10 Kg/Hr Cl_2 Gas TJ-C2211+



0-25Kg/Hr Cl_2 Gas TJ-C17



0-200Kg/Hr Cl_2 Gas TJ-C27



* Range available: 25, 80, 200, 500, 1000, 2000, 2500, 4000 gm Cl_2 /hr.

* For direct cylinder mounting with inbuilt safety valve.

* For simultaneous delivery from cylinders in battery operation (capacity upto 10 kg Cl_2 /hr)

* Simultaneous delivery
* Filter for Chlorine Gas
* Residual pressure preservation

* Range available: 5, 10, 15, 25 kg Cl_2 /hr.

* Inbuilt Safety Valve

* Also available with back pressure regulator

* Wall mounting/ Cabinet (Floor) mounting versions available

* Range available: 40, 60, 120, 200 kg Cl_2 /hr.

* Inbuilt Safety Valve

* Also available with back pressure regulator

* Chlorine Gas Pressure Gauge
* Vacuum Gauge

Field of Application: Water Stations, Public Baths, Swimming Pools, Cooling Water Systems, Waste Water Recycling, Water Treatment.

OTHER AVAILABLE ACCESSORIES :

For Dosing: Pulsation Dampeners, Loading/ Relief Valves, Five Function Valves, Injection Nozzles, Diaphragm Rupture Detection Systems, ATE Servo Motors, Frequency Convertors, Explosion Proof/ Flame Proof Motors & Chemical Dosing System etc.

For Chlorination: Evaporators, Back Stop, Chlorine Test Kit, Changeover Valves, Chlorine Gas Leak Detection Systems, Chlorine Control Valves, Water Sampling Stations, Pressure Reducing Valves, Vacuum Breakers And Chlorine Dioxide Production Systems etc.

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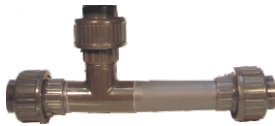


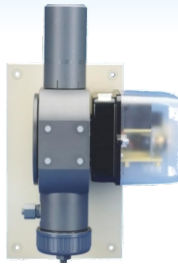
Kutchery Road, Ajmer - 305001 (Raj.) INDIA

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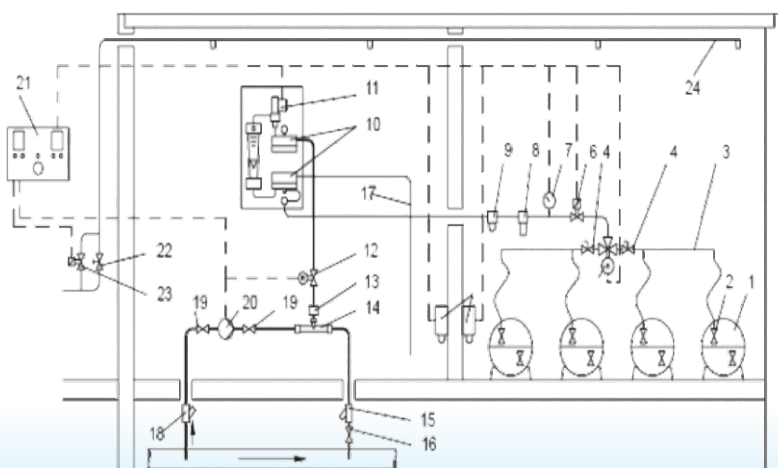
CHLORINATION RELATED ACCESSORIES

EJECTOR	CHLORINE GAS FILTER TJ - FLT	RESIDUAL CHLORINE ANALYSER CL7687	CHLORINE CONTROL VALVE C7700
			
<ul style="list-style-type: none"> * Fixed nozzle type * Whirl type vanes for optimum mixing of Chlorine Gas with Water * PVC/ Rubber lined Ejectors available for higher capacities 	<ul style="list-style-type: none"> * Capacity: up to 200 Kg/hr * MOC: Carbon Steel * Filter media: Glass Wool, Monel mesh. 	<ul style="list-style-type: none"> * Display Type: Multiline Graphic * 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 	<ul style="list-style-type: none"> * Control range: 0 ... 80g Cl₂/hr and upto 0 ... 200 kg Cl₂/hr * For automation of Chlorine Dosing with respect to set point of ppm level in the Residual Chlorine Analyser.

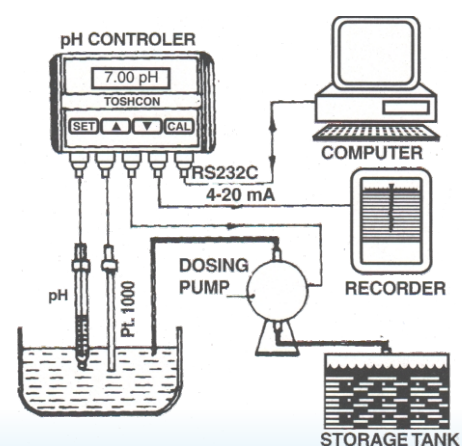
SUPPLY, ERECTION, INSTALLATION AND COMMISSIONING OF BIG CHLORINATION SYSTEMS FOR THERMAL POWER STATIONS, DOMESTIC WATER TREATMENT PLANTS AND INDUSTRIAL WASTE WATER RECYCLING PLANTS ARE ALSO UNDERTAKEN

CHLORINE EVAPORATOR C6100	PRESSURE REDUCING VALVE TJ-PRV	AUTO CHANGEOVER VALVE C2006	CHLORINE GAS LEAK DETECTOR TX92
			
<ul style="list-style-type: none"> * Evaporative power up to 220 kg Cl₂/hr * Maximum temperature of 72°C * No circulating pump required 	<ul style="list-style-type: none"> * Capacity: up to 200 Kg/hr * To reduce Chlorine Gas pressure down to 2-3 bar to avoid re-condensation of Chlorine Gas. 	<ul style="list-style-type: none"> * For vacuum operation, no auxiliary energy required * Separate models available for pressure operation also. 	<ul style="list-style-type: none"> * Simultaneously 4 sensors can be connected * Relay outputs available for initiating hooter and sprinkler systems in case of Chlorine leak

TJ-C-17 INSTALLATION DIAGRAM



pH CONTROL LOOP



TOSHCON JESCO (INDIA) PVT. LTD.,

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