

High Precision , High Accuracy & International Quality

CALIBRATORS



PROCESS CONTROL INSTRUMENTS



ANALYTICAL INSTRUMENTS



NABL ACCREDITED CALIBRATION LAB



CERTIFICATE OF ACCREDITATION
SANSSEL CALIBRATION LABORATORIES
 has been found to be in accordance with the standard
ISO/IEC 17025:2005
 General Requirements for the Competence of Testing & Calibration Laboratories
 in all fields of
 No. 1248, 3rd Main Road, Ganga Nagar, Madhavayal,
 Chikmagalur, Tamil Nadu
 in the field of
CALIBRATION
 Certificate No: 11/14/1
 Issue Date: 29/07/2019



SCOPE OF ACCREDITATION

Sl. No.	Calibration Parameters	Measurement Uncertainty	Measurement Uncertainty
1	Temperature	±0.01°C	±0.01°C
2	Pressure	±0.01 MPa	±0.01 MPa
3	Force	±0.01 N	±0.01 N
4	Length	±0.01 mm	±0.01 mm
5	Volume	±0.01 ml	±0.01 ml
6	Mass	±0.01 g	±0.01 g
7	Area	±0.01 cm²	±0.01 cm²
8	Angle	±0.01°	±0.01°
9	Speed	±0.01 rpm	±0.01 rpm
10	Acceleration	±0.01 m/s²	±0.01 m/s²
11	Frequency	±0.01 Hz	±0.01 Hz
12	Power	±0.01 W	±0.01 W
13	Energy	±0.01 J	±0.01 J
14	Current	±0.01 A	±0.01 A
15	Voltage	±0.01 V	±0.01 V
16	Resistance	±0.01 Ω	±0.01 Ω
17	Capacitance	±0.01 F	±0.01 F
18	Inductance	±0.01 H	±0.01 H
19	Impedance	±0.01 Ω	±0.01 Ω
20	Phase Angle	±0.01°	±0.01°
21	Power Factor	±0.01	±0.01
22	Complex Power	±0.01 VA	±0.01 VA
23	Complex Power Factor	±0.01	±0.01
24	Complex Power Factor	±0.01	±0.01
25	Complex Power Factor	±0.01	±0.01
26	Complex Power Factor	±0.01	±0.01
27	Complex Power Factor	±0.01	±0.01
28	Complex Power Factor	±0.01	±0.01
29	Complex Power Factor	±0.01	±0.01
30	Complex Power Factor	±0.01	±0.01



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2	Pressure	±0.01 MPa	±0.01 MPa
3	Force	±0.01 N	±0.01 N
4	Length	±0.01 mm	±0.01 mm
5	Volume	±0.01 ml	±0.01 ml
6	Mass	±0.01 g	±0.01 g
7	Area	±0.01 cm²	±0.01 cm²
8	Angle	±0.01°	±0.01°
9	Speed	±0.01 rpm	±0.01 rpm
10	Acceleration	±0.01 m/s²	±0.01 m/s²
11	Frequency	±0.01 Hz	±0.01 Hz
12	Power	±0.01 W	±0.01 W
13	Energy	±0.01 J	±0.01 J
14	Current	±0.01 A	±0.01 A
15	Voltage	±0.01 V	±0.01 V
16	Resistance	±0.01 Ω	±0.01 Ω
17	Capacitance	±0.01 F	±0.01 F
18	Inductance	±0.01 H	±0.01 H
19	Impedance	±0.01 Ω	±0.01 Ω
20	Phase Angle	±0.01°	±0.01°
21	Power Factor	±0.01	±0.01
22	Complex Power	±0.01 VA	±0.01 VA
23	Complex Power Factor	±0.01	±0.01
24	Complex Power Factor	±0.01	±0.01
25	Complex Power Factor	±0.01	±0.01
26	Complex Power Factor	±0.01	±0.01
27	Complex Power Factor	±0.01	±0.01
28	Complex Power Factor	±0.01	±0.01
29	Complex Power Factor	±0.01	±0.01
30	Complex Power Factor	±0.01	±0.01

DRY BLOCK TEMPERATURE CALIBRATOR

Model : TCAL 1501 series



Model :	TCAL 1501 / 30	TCAL 1501 / 300	TCAL 1501 / 600	TCAL 1501 / 1200
Range(°C)	-30 * to 100	Amb. to 300	Amb. to 600	500 to 1200
Resolution (°C)	0.01	0.01	0.01	0.1
Uniformity ± (°C)	0.2	0.3	0.5	3.0
Stability ± (°C)	0.02	0.03	0.05	0.3
Heating time (mins)	20 (Amb. to 100°C)	30 (Amb. to 300°C)	30 (Amb. to 600°C)	60 (Amb.to 1200°C)
Cooling time (mins)	25 (25 to -30°C) (100 to Amb.)	40 (300 to 100°C)	50 (600 to 100°C)	120 (1200 to 100°C)
Time to stabilize (mins)	10	15	15	30
Well dimension (dia. x depth) in mm	22.5 x 120	30 x 150	30 x 150	39 x 150
Standard Well Holes in mm	5.2, 6.2, 6.2	5.2, 6.2, 6.2, 8.1	5.2, 6.2, 6.2, 8.1	5.2, 6.2, 6.2, 10.1, 12.1
Power consumption	500 VA	600 VA	1200 VA	2200 VA
Dimension (Approx.) (LxWxH) in mm	409 x 178 x 357	285 x 155 x 330	285 x 155 x 330	340 x 175 x 425
Weight (without well insert) (Approx.) in kg	12.5	7.5	8.5	18
Display	4.3 inch True TFT DISPLAY with touch screen			
Measure inputs (optional)	RTD- PT 100, PT 1000 /TC - J , K , R , S , T , E ,B , N /mA/mV/Ohms			
Switch test	Provided on front panel			
Power supply	110V or 230V AC 50/60 Hz			

Note : Above specification change without notice

* Model TCAL 1501 / -30 , Range from - 30 to 100°C @ ambient 25°C

Dry Block Temperature Calibrator

Model : 1401 Series



TCAL 1401 /	-30	600	1200
Range(°C)	- 30 * to 100	Amb. to 600	300 to 1200
Resolution (°C)	0.1	0.1	1.0
Stability ± (°C)	0.1	0.1	1.0
Uniformity ± (°C)	0.3	0.8	3.0
Heating time (mins)	20 (Amb. to 100°C)	30 (Amb. to 600°C)	50 (Amb. to 1200°C)
Cooling time (mins)	25 (25 to -35°C) (100 to Amb.)	30 (600 to 100°C)	120 (1200 to 100°C)
Time to stabilize (mins)	10	15	30
Well dimension (dia. x depth)inmm	22.5 x 120	30 x 110	45 x 150
Standard Well Holes in mm	5.2, 6.2, 6.2	4.2, 6.2, 6.2, 8.5	4x7, 3x9
Power consumption	500 VA	1200 VA	1900 VA
Dimension (Approx.) (LxWxH) in mm	409 x 178 x 357	285 x 125 x 257	365 x 205 x 450
Weight (without well insert) (Approx.) in kg	12	7.5	13
Display	0.58" (upper), 0.3"(lower) 4 digit LCD display with four keys		
Power supply	110V or 230V AC 50/60 Hz		

Note : Above specification change without notice

*** Model TCAL 1401 / -30 , Range from - 30 to 100°C @ ambient 25°C**

TACHOMETER CALIBRATOR

Model : RPMC 1700

Contact



Non contact

- 4.3 / 7" TFT Multi color touch screen display
- Range from 0 to 6000 / 8000 / 12000 RPM (contact)
- Range from 0 to 90,000 / 1,10,000 / 1,60,000 RPM (non contact)
- Resolution 0.1 / 0.001 / 0.1 RPM (Contact / non contact)
- Stability ± 0.2 RPM (contact) ± 2 RPM (non contact)
- Accuracy ± 0.5 RPM (contact) ± 5 RPM (non contact)
- Stability time within 5seconds

- Noise level < 50 dB
- User selectable clockwise /Anticlockwise soft rotation
- Low noise ultra –stable motor with high precision encoder and drive
- Compact Size 440(w)x 260(d)x203(h) mm
- Supply 230V AC, 50 / 60 HZ ±1%
- Light weight 13 kg (approx).

PRECISION PRESSURE CALIBRATOR

Model : PCAL 1300 series



Model :						
PCAL 1300 /	0.350	1	2	30	350	700
Range(bar)	± 350mbar	-0.95 to 1	-0.95 to 2	-0.95 to 30	0 to 350	0 to 700
Pressure media	Air	Air	Air	Air	Oil or water	Oil or water
Pressure pump	HP - 04	HP - 04	HP - 04	HP - 03	HP 02A	HP 01
Pressure port	¼" & ⅜" BSP Female	¼" & ⅜" BSP Female	¼" & ⅜" BSP Female	2 x ¼" NPT Female	2 x ½" BSP Female	2 x ½" BSP Female
Pump dimension in mm (Approx.)	170 x 45 (Height x Dia)	170 x 45 (Height x Dia)	170 x 45 (Height x Dia)	230x65x130 (L x H x W)	310x80x165 (L x H x W)	340x240x320 (L x H x W)
Pump weight (gms)(Approx.)	700			1250	1850	7500
Resolution (bar)	6 digit user selectable					
Instrument port	¼" BSP Male x 10mm long					
Inst. dimension	100 x 100 x 55(W x H x D) mm					
Inst. weight	400gms(Approx.)					
Stability time	1 to 2 mins					
Accuracy	± 0.05 %FS					
Display	128 x 64 COG Graphic LCD with White LED Back light					
Pressure units* (selectable)	bar, mbar, Mpa, kPa, Pa, PSI, Kg/cm², inHg, cmHg, mmHg, mH₂O, ftH₂O, inH₂O, cmH₂O, mmH₂O					
Pressure zero	One touch zero provided on front key					
Pressure peak	Maximum & minimum with user reset option					
Pressure overflow	FS x 2 (Max.)					
Pressure burst	FS x 3 (Max.)					
Temp. Measure	RTD - PT 100 (2, 3, 4 wire selectable)					
Temp. range	-199.999 to 850.000°C					
mA Measure	0 - 24 mA(scalable)					
Display scale	-99999 to 99999 counts(for mA measure input)					
Switch test	Provided					
Display Hold	One touch hold provided on front key					
Power supply	9V DC ± 5 % / 200 mAh Rechargeable battery with battery life 4½ hours without back light (or) 9V DC adapter / 230V AC supply operated					
PC interface	RS 485					
PC Software	Windows based semi automatic calibration software(Optional)					

Note : Above specification change without notice
* factory selected units are display which supports to pressure range

LIQUID TEMPERATURE CALIBRATOR

Model : TCAL 1501 / 250

Display	4.3 inch True TFT display with touch screen
Temperature	Amb. to 250 °C
Range	Amb. to 250 °C
Resolution	0.01°C
Accuracy	Better than ± 0.3°C
Stability	± 0.03 °C
Unit	°C / °F (selectable)
Cooling time (mins)	90 (Amb. to 250 °C)
Heating time (mins)	60 (250 to 50 °C)
Timestabilize (mins)	45
Temperature medium	Silicon oil(200cs recommended)
Chamber dimension	60 mm dia x 140 mm depth
Measure inputs	RTD- PT 100, PT 1000 / TC-J,K,R,S,T,E, B,N ,mA / mV / ohms
Dimension (L *W*H)	340 L x 125 W x 425 H in mm (Approx.)
Weight (Approx.)	12 kg (with out oil)
Power consumption	1800VA
PC interface	RS 485 (Optional)



HIGH TEMPERATURE CALIBRATOR

Model : TCAL 1500 / 1500



Display	4.3 inch True TFT display with touch screen
Range	500 °C to 1500 °C
Resolution	0.1°C
Accuracy	± 0.5% of reading
Stability	± 1 °C
Unit	°C / °F (selectable)
Heating time (hrs)	3½ (Amb. to 1500 °C)
Timestabilize (mins)	30
Well dimension (dia x dep) in mm	70 x 215
Standard well holes in mm	6,8,10,14,18,22 (Approx.)
Dimension (L *W*H) in mm	520 L x 420W x 625H (Approx.)
Weight (Approx.)	48 kg (with out well insertion)
Power consumption	3500VA
PC interface	RS 485 (Optional)

INFRA RED BLACK BODY TEMPERATURE CALIBRATOR



Model	BCAL 102	BCAL 502	BCAL 1202	BCAL 1502
Range	0 to 100°C @ amb. 25°C	Amb. to 500°C	500 to 1200°C	500 to 1450°C
Resolution	0.1 °C	0.1 °C	1 °C	1 °C
Emissivity	0.95	0.95	0.95	0.95
Stability ±	0.1	0.2	1	1
Aperture	25mm	25mm	25mm	30mm
Display :	4.3" True TFT display with touch screen for Bcal 102,1202 4+4 (or) 4 Digit 7seg Led display for Bcal 502			

ULTRA LOW & LIQUID TEMPERATURE CALIBRATOR

Model : TCAL -80

- 4.3 inch True TFT display with touch screen
- Ranges from -80 to -40 °C
- Resolution 0.01°C
- Stability ± 0.03°C
- Uniformity ± 0.2°C
- Cooling Medium IPA
- 100 mm Depth Well
- Light weight & Rugged
- Multi Hole Provision for Different Size Sensor calibration
- Liquid capacity 5 Liters



Industrial Grade Light Weight Dry block Temperature bath Miniature (baby) version Model 1402 SERIES



**See the actual size
(comparison with pencil)**

- » One of the smallest dry well bath in the world
- » Better stability - $\pm 0.1^{\circ}\text{C}$ @ 100°C
- » Axial + Radial uniformity - better than $\pm 0.3^{\circ}\text{C}$
- » Inter changeable insert to suit different diameter
- » Simple, Convenient & easy operation
- » Light weight - Less than 2 kg (Approx.)
- » Rugged & most
- » World class performance
- » Fast calibration - save time & money
- » Wide temperature range - Amb. to $300 / 500^{\circ}\text{C}$
- » Fast heating - $25^{\circ}\text{C} / \text{min}$.

- » Quick stabilization - with in 5 min.
- » Better stability - $\pm 0.1^{\circ}\text{C}$ @ 100°C
- » Axial + Radial uniformity - better than $\pm 0.3^{\circ}\text{C}$
- » Inter changeable insert to suit different diameter sensor - up to 20 mm
- » Suitable to calibrate RTDs, Thermocouples, Thermistors, Digital thermometers & Temperature indicator with sensors
- » Supplied with rexin carry bag
- » ISO / IEC 17025 Standard Accredited Calibration Certificate

PRECISION HUMIDITY & TEMPERATURE CALIBRATION SYSTEM Model : HCAL 1102S & 1102P

- > 4.3 inch True TFT display with touch screen
- > Temperature and Humidity controlled independently.
- > Large Test chamber.
- > High Accuracy with Stability $\pm 0.2^{\circ}\text{C}$ & $\pm 0.5\% \text{ Rh}$
- > Humidity range 10 to 95% RH
- > Air temperature range 15 to 40°C
- > Inter changeable Front Acrylic Door for different type of
- > Sensor calibration.
- > Chamber doors designed to Accept probe and portable
- > Indicator from all manufacture.



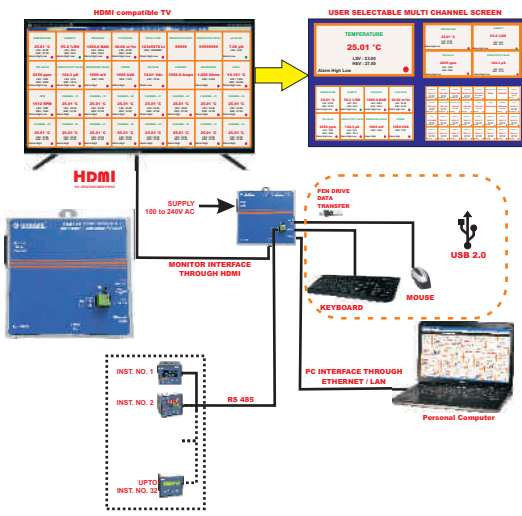
SEMI STANDARD PLATINUM RESISTANCE & MASTER THERMOCOUPLE with HIGH PRECISION HANDHELD UNIVERSAL THERMOMETER Model : SSPRT & MTC

- > Temperature range from -80 to 660°C & up to 1200 & 1500°C
- > 6mm O.D & available different Dimensions
- > Outer Sheath SS 316 / Inconel / High Alumina Tube
- > High Resolution Hand Held Thermometer for RTD / 0.001°C & Thermocouple / 0.01°C
- > High Accuracy & Stability
- > Manufactured & Tested under strict quality control standards
- > Cycled to Stability



PROCESS CONTROL INSTRUMENTS

JUMBO INDICATOR / DATALOGGER (multi channel)(multicolour TV based)



DISPLAY PARAMETER

- * Temperature
- * Humidity
- * pressure
- * Flow & Total flow
- * Volume
- * Level
- * Production counting
- * RPM
- * m/min
- * CO2
- * Volts
- * Current
- * Power
- * pH
- * TDS
- * Conductivity
- etc.,

- > It replace conventional 7 segment LED display
- > No size limitation- Depends upon customer scope(HDMI compatible TV)
- > Low cost
- > Universal indicator for any type of industrial process parameter
- > Input from RS485 MODBUS RTU protocol
- > HDMI output for display connectivity
- > OLED TV display or any type of HDMI input display device
- > Optional Ethernet output for computer connectivity
- > Up to 32 input channels
- > Custom selectable number of input channels
- > User configurable RS485 MODBUS setting
- > User selectable title and Engineering units
- > Alarm set point and status indication
- > Adjustable display font size
- > Custom adjustable colour, background, display, title and units
- > Inbuilt Data logging facility
- > Pen drive option for Data download
- > Reduce cable cost between indicator and sensing point

TOUCH SCREEN UNIVERSAL INPUT DATA LOGGER Model : DL 96 & 97



- > New exciting modern look Multi colour TFT display
- > Easy touch screen to configure & copy the datas
- > 8, 16, 32 Channel Inputs with Universal Inputs
- > Analog Inputs like Thermocouple , RTD, mA, mV , V
- > Internal Memory for Datas upto 10,000 records
- > USB 2.0 for PEN drive data transfer
- > Parallel port provided for direct printout the storage datas
- > PC Interface through RS 485 or RS 232 or USB or Ethernet (TCP/IP)
- > Common Alarm Output with H/L Settings for all channels
- > Easy Mounting , Compact Size and rugged
- > Supply 230V AC

APPLICATION

- » Metrology lab
- » Pharmaceutical
- » Ventilation Air condition
- » Food Processing Industries
- » Research lab etc.,

5 ½ Digit PROCESS INDICATOR / LOAD CELL INDICATOR Model : PI 541A / LI 543



- > 5 ½ Digit 7 Segment Red LED display
- > High Accuracy
- > 24 Bit ADC Resolution
- > Programmable Decimal point and Display noise filter
- > Selectable Inputs RTD, all types of thermocouple, mA, mV , Volt, Ω
- > Wide Selectable Range between -199999 to 199999 counts
- > Input mV/V Selectable
- > Peak hold / vally / average
- > Mode selectable
- > 24V DC regulate output for sensor input
- > Easy field Configurable with Front key Calibration
- > 2 Alarm Output with Four Relay Status Selection
- > Optional RS 485 MODBUS Protocol
- > Optional Opto Isolated Re Transmission Output
- > Optional PC Software with Monitoring, Logging, Report & Graph
- > 24V DC External Sensor Supply

4 & 5 DIGIT PROCESS INDICATOR / LOAD CELL INDICATOR Model : PI 590-1, 542A, LI 544



- > 4 Digit 7 Seg LED (or) LCD display with Programmable resolution
- > 24 Bit ADC Resolution, Selectable Inputs mA, mV , Volt, Ω , (RTD, TC) only for PI 542A
- > PI 591 Range 20,000 to 40,000 counts
- > PI 542A Range -1999 to 9999 counts
- > 2 Alarm Output with Four Relay Status Selection
- > Optional RS 485 MODBUS Protocol
- > Optional Opto Isolated Re Transmission Output.
- > Input mV/V Selectable
- > Peak hold / vally / average
- > Mode selectable
- > 24V DC regulate output for sensor input
- > 24V DC External Sensor Supply
- > Universal Supply Voltage 90 to 270V AC / DC

**ENVIRONMENTAL MONITORING SYSTEM
(HUMIDITY, TEMPERATURE & PRESSURE)**

**TEMPERATURE INDICATOR /CONTROLLER /TRANSMITTER
Model : TC 171 & 191 & TI 141**



- > 4 Digit , 0.5" Seven Segment LED display
- > Temperature range 0 to 60°C (optional - 40 to 125°C)
- > Humidity range from 0 to 100% RH
- > Barometric or Differential Pressure Range from 0 - 2000mbar / 0- 50Pa
- > High Resolution 0.01 or 0.1°C / 0.1 % RH / 1 mbar
- > High Accuracy $\pm 0.3^\circ\text{C}$ / $\pm 1.5\%$ RH / $\pm 0.25\%$ FS
- > Easy Mounting ,Compact Size and rugged
- > Supply 90 to 270 V AC



- > 4 + 4 (or) 4 Digit 7 Seg LED display with Selectable Resolution
- > 24 Bit ADC Resolution
- > Selectable Inputs RTD - PT 100 , TC - J , K , R , S , T.
- > 2 Relay Output for Control & Alarm (for specific model)
- > Zero & Span Calibration
- > Temperature control - PID / Onoff
- > Optional RS 485 Communication with MODBUS RTU Protocol
- > Opto Isolated 4 - 20 mA Re Transmission Output (for specific model)
- > Universal Supply Voltage 90 to 270 AC / DC

**DIGITAL TIMER, SET POINT & SIMPLE COUNTER
Model : DT 70 A, DT 271, DC 370 & DC 330**

**RPM INDICATOR / CONTROLLER
Model : RP 430 , 470 & 471**



- > 3 + 3, 4 & 6 Digit Seven Segment LED display
- > 3 to 30V DC Input Pulse from any type Sensor
- > 2 Relay O/P with Front Key Set table 2 High Setpoint (for specific model)
- > Front End Reset with Protection
- > Seconds, Minutes, Hours Configurable with Non Volatile Memory for timer
- > Optional RS 485 Communication with MODBUS RTU Protocol for counter
- > External Start / Reset Options for Timer
- > 10 Years Memory Backup
- > Universal Supply Voltage 90 to 270V AC / DC



- > 4 Digit Seven Segment LED display
- > Wide Range 0 - 9999 RPM / RPS / RPH (for specific model)
- > 3 to 30V DC Input Pulse from any type Sensor
- > Allows Maximum 3.5 kHz Input Pulse Speed
- > 2 Relay Output with Set table Hi & Lo Set points(for specific model)
- > Power ON Delay & Hys. for Relay Output is Provided(for specific model)
- > 12 V DC Sensor Supply
- > Optional RS 485 Communication with MODBUS RTU Protocol
- > Universal Supply Voltage 90 to 270V AC / DC

JUMBO DISPLAY INDICATORS for ALL PROCESS CONTROL INSTRUMENTS



- > View the Humd. /Temp./ Pres./ Time/ Clock / Flow / Level / Timer Counter
- > 1", 2", 4", 8" Available in Different Segment Sizes
- > Different type of Mounting Wall, Selling, Panel, "L" Clamping
- > 4 / 6 Digit Seven Segment LED
- > RTD / TC / mA / mV / Pulse Inputs (any One Factory Presetable)
- > Wide Input & Display Ranges
- > 2 Relay Outputs with Configurable H / L Setting
- > Re Transmission Output (Optional)
- > 24 V DC Sensor Supply

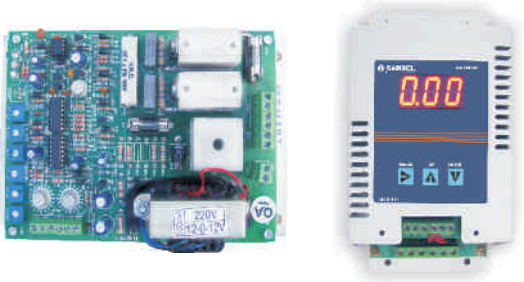


DC DRIVE

Model : DCD series

THYRISTOR POWER CONTROLLER

Model : PC 25 A & 3 P



- > Input :230V AC, 50 HZ
- > Out put :Armature voltage -180 V, Field voltage -220 V
- > Digital dc drive from few wattage to 2ph motor capacity
- > Control input is isolated to interface with external device like PLC interface
- > You can select speed percentage armature voltage or armature current in display



- > Three / Two / Single Phase Models Available.
- > Current Rating from 25 to 250 Amps.
- > Power Rating Up to 150kW.
- > Soft Start & Maximum Power Adjustment Provided
- > Phase Angle Controlling
- > Output Status & Power ON Indication Provided
- > Different Types of Control Inputs Like 4 - 20 mA, 0 - 5V DC, Pot meter etc.,
- > Supply Voltage 230V AC

ANALYTICAL INSTRUMENTS

REMOTE - PROCESS PLANT MONITORING SYSTEM WITH ELECTRODES

Model : PA - GSM - Series

- For the parameters pH, TDS, Daily Production, water consumption(Lts), Water level, ORP, Conductivity.
- 16 Characters x 2 Line LCD Display
- With your presence-monitor, control & analysis
- SMS & EMAIL- 5 mobile number sms & 3 Email IDS
- Any where in the world- through the use of GSM network
- Historical data's saved as an MS EXCEL formate in the mail ID
- Real time - point to point data transporting
- User configurable via mobile phone
- Suitable for water and water based quality control industries



ONLINE pH / ORP CONTROLLER & TRANSMITTER

Model : pHT 600-1, ORT 601-1



- 4 + 4 Digit 7 segment LED display
- Wide measuring range -2 - 16.00 pH / ± 1999 ORP with 1 ORP resolution
- Programmable Auto / Manual Temperature Compensation
- Galvanically Isolated 4 - 20mA Output
- Automatic 2 Point Standard Buffer Calibration
- 2 Relay Outputs with 4 Relay Status Setting
- Universal Supply Voltage 90 to 270V AC / DC

ONLINE TDS / COND. / SALINITY CONTROLLER & TRANSMITTER

Model : TDS 602-1, CCT 603-1, SAL 606-1



- 4 + 4 Digit 7 segment LED display
- Wide measuring range 0 - 9999 ppm/μS / 0 - 99.99 ppt/mS
- Programmable Auto / Manual Temperature Compensation
- Adjustable Temperature Co - efficient
- Galvanically Isolated 4 - 20mA Output
- Manual 3 Point Standard Calibration
- 2 Relay Outputs with 4 Relay Status Setting
- Universal Supply Voltage 90 to 270V AC / DC

pH / ORP / TDS / CONDUCTIVITY INDICATOR

Model : pH 641 & TDS 642



- Economical & Easy to Calibrate & Configure
- 4 Digit 0.5 " 7 segment LED display
- Measures pH / ORP / TDS / Conductivity / °C parameters
- Wide measuring range
- Programmable Auto / Manual Temperature Compensation
- Adjustable Temperature Co efficient & TDS Factor
- Manual & Automatic multi Point Standard Calibration
- Universal Supply Voltage 90 to 270V AC / DC

ONLINE TDS , CONDUCTIVITY , TEMPERATURE PROBES



- Economical & Easy to Fit
- Measures TDS / Conductivity / Temperature (°C)
- Wide measuring range 0 - 2000 ppm/ μS & 0 - 200 ppt/ mS / 0 - 150.0°C
- 0.1 , 1 cell constant Electrodes are Available
- Available With Different Types of Fitting & Housing
- Standard 5 meter Cable
- Terminal connector for TDS & Conductivity
- Custom 3 way Connector for Temperature

ONLINE pH , ORP & TEMPERATURE PROBES



- Economical & Easy to Fit
- Measures pH / ORP / Temperature °C
- Wide measuring range 0 - 14.00 pH / ± 1999 ORP / 0 - 150.0°C
- Available in Different Types of Fitting & Housing
- Standard 5 Meter Cable
- BNC Attachment for pH & ORP

Lab pH, ORP, TDS, CONDUCTIVITY & TEMPERATURE PROBES



- Economical & Easy to Handle
- Measures pH / ORP / TDS / Conductivity / Temperature (°C)
- Wide measuring range 0 - 14.00 pH / ± 1999 ORP 0 - 2000 ppm / μS & 0 - 200 ppt / mS // 0 - 150.0°C
- Standard 1 meter Cable
- BNC Attachment for pH & ORP, Banana connector for TDS & Cond.
- Custom 3 way Connector for Temperature

pH / ORP METER
Model : pH 302



- > 16 Character x 2 Line LCD display
- > Measures pH / ORP / °C Parameter simultaneously
- > Wide measuring range 0 - 14.00 pH / ± 1999 ORP / 0 - 150.0°C
- > Programmable Auto / Manual Temperature Compensation
- > Automatic 2 & 3 Point Standard Buffer Calibration for pH
- > Manual 2 Point Standard Buffer Calibration for ORP
- > Universal Supply Voltage 90 to 270V AC / DC

TDS / CONDUCTIVITY METER
Model : TDS 101



- > 16 Character x 2 Line LCD display
- > Measures TDS / Conductivity / °C Parameter simultaneously
- > Wide measuring range 0 - 2000 ppm / µS & 0 - 200 ppt / mS
- > Auto Ranging Resolution
- > Programmable Auto / Manual Temperature Compensation
- > Custom Selectable Cell Constant
- > Adjustable Temperature Co efficient
- > Adjustable TDS Factor
- > Manual 4 Point Standard Calibration
- > Universal Supply Voltage 90 to 270V AC / DC

DIGITAL pH METER
Model : pH 300



- > 3½ digit 7 segment LED
- > pH & mV selectable
- > 0 - 14.00 pH / 0 - 1999 mV
- > Temperature Compensation provided with 0 - 150 °C
- > Easy Front Key 4pH & 7pH Auto Buffer calibration
- > ± 0.01% of FS Accuracy
- > Combined Electrode with BNC attachment
- > 90 to 270V AC operated with fuse protection

DIGITAL TDS METER
Model : TDS 100



- > 3½ digit 7 segment LED
- > 1.00 Cell Constant
- > 0 - 2000 ppm / 0 - 200 ppt
- > 5 Range selection
- > ± 1% of FS Accuracy
- > Temperature Compensation provided with 0 - 150 °C
- > Easy Front Key Calibration
- > Platinum Conductivity Cell
- > 230V AC Operating Supply with fuse protection

DIGITAL CONDUCTIVITY METER
Model : DCM 200



- > 3½ digit 7 segment LED
- > Cell Constant Adjustable
- > 0 - 2000 µS / 0 - 200 mS
- > 5 Range selection
- > ± 1% of FS Accuracy
- > Temperature Compensation provided
- > Easy Front Key Calibration
- > Platinum Conductivity Cell
- > 230V AC Operating Supply with fuse protection

DIGITAL NEPHELOMETER
Model : DN 1000



- > 3 ½ digit 7 segment LED
- > Range 0-20 , 0-200 NTU (optional on demand 0-1000 NTU)
- > Light Emitting Diode (LED) Light Source
- > Zero & SPAN Calibration From Front Panel
- > Compact Size
- > Power ON/OFF Indicating Switch
- > 230V AC Operating Supply

pH TRANSMITTER
Model: pH600-4



- > Input from pH sensor
- > Measuring range 0 - 14.00 pH
- > Resolution :0.01pH
- > Accuracy: ± 0.02pH (with out electrode)
- > Out put : 4-20mA isolated
- > 2-wire type (Load 200ohms max.)
- > Calibration : using offset & slope trimmers
- > Operating temperature :0-50°C
- > Housing : Polycarbonate enclosure
- > Power supply :24V DC ± 10%

DIGITAL COLONY COUNTER
Model : CC 100



- > 4 digit 7 segment LED
- > Long Life Electronic Pen
- > 110 mm Dia Magnifying Glass
- > Audible Buzzer Indication for Each Count
- > Uniform Glare free illumination
- > Wolffhugel Glass Grid with Focusing Facility
- > X 1.7 Surface Magnification
- > 230V AC Operating Supply

AUTOClave CONTROLLER

Model : ACC 900 series



- New modern look with 16 Character x 4 Line LCD display
- Temperature, inbuilt Timer, water low level, door open limit switch inputs & Pressure all in one controller
- RTD - PT 100 sensor input with Temperature Range 0 to 200.0°C
- High Accuracy
- 15 Amps Rated Relay or SSR Output for Heater
- 0 - 9999 mins / secs user selectable soak time with Up / Down count selection
- Optional Data logging & Parallel printer interface
- Panel mountable 96(H) x 96(W) x 85(D)mm Enclosure
- Universal Supply Voltage 90 to 270V AC / DC

ULTRASONIC LEVEL INDICATOR / TRANSMITTER

Model : ULT & ULI 892



- Non-contact Level Measurement
- 2m / 5m / 10m sensing ranges
- Teflon sealed sensor
- 4-20mA output (3 Wire Type)
- 10 Deg Beam Angle
- Compact size
- Easy to mount
- RS485/MODBUS

DISSOLVED OXYGEN METER

Model : DO 607-1



SPECIFICATION

- Output (additional temperature output)
- 4 — 20 mA (internal supply)
- 4 — 20 mA (external supply)
- Resistance output Pt1000
- Oxygen range 0 — 2 to 0 — 50 mg/liter (programmable)
- Cable length (transmitter) 8 m
- Supply
- 110 — 240 V AC +10 /-15%, 48 — 63 Hz 25
- 20 — 53 V AC/DC, 48 — 63 Hz 28
- 19 — 31 V DC , +0% (two-wire transmitter)

APPLICATONS

- Aeration monitoring and control
- Waste water treatment
- Fermentation and cell culture
- Biotechnology
- Pharmaceutical
- Landfill
- Water Utilities
- Fish farming
- Environmental

TURBIDITY METER

Model : TUR 608-1



Range of typical turbidity values (NTU)

- Spring water 0.05 to 10
- Sewage treatment plant drainage 2 to 40
- Wastewater (untreated) 70 to 2000
- White water (paper industry) 60 to 800
- Formazine 4000

APPLICATONS

- Drinking water treatment
- Water protection
- Fish farming companies
- Municipal and industrial sewage treatment plants
- Process engineering plants
- Paper industry

TURBINE FLOW METER

SPECIFICATION

Line size : 4 to 650mm
Flow rate : 40 to 1,50,00,000 liter/hour
Shaft : Hard Stainless Steel-316 with carbon bush
Accuracy : +/- 0.2% or 0.5 % FSD
Material : S.S / PPS
Maximum working pressure : 60 bar/ 250 bar/ 400 bar
Fluid & Ambient temperature : -20 to 120 Deg.
Connection : Thread (M/F) or flange
Battery operated Turbine flow meter

Turbine flow meter with 4 to 20 mA Output
Power voltage : 24 V DC
Output signal : 4 TO 20 mA
Optional : RS 485

Turbine flow meter available with
1) inline battery operated display (EX OR ip-65)
2) 4 to 20mA output 2wire display(EX)
3) 4 to 20mA + RS 485 output display(EX)
4) 4 to 20mA + HART output display(EX)

APPLICATION

- » Gasoline and Diesel Fuel Measurement
- » Flow measurement of Pharmaceutical Drug
- » Food
- » Water and all applications



VORTEX FLOW METER

SPECIFICATION

Line size : 25 to 1000mm
Flow rate : Contact company with process
Connection : Flange / Thread
Moc : Stainless steel, cast steel
Pressure Temperature compensation
Accuracy : 0.25% to 1 %
Battery : 24VDC / 230V AC
output : 3 wire pulse
: 2 wire 4 to 20 mA
: RS-485
: HART
Flow range : Liquid:0.4-7.0m/s;
Gas :4.0-60.0m/s;
Steam :5.0-70.0m/s

APPLICATION

- » Steam
- » Gas
- » Liquid flow meter



HELICAL ROTOR FLOW SENSOR



SPECIFICATIONS

Line	: 4 to 650 mm
Flow rate	: 4 to 1,50,00,000 liter / hour
Connection	: Flang and Thread
Accuracy	: 0.2% to 1%
Repeatability	: 0.01%
Maximum working pressure	: 2.5 MPa
Fluid & Ambient temperature	: -40 to 120 Deg. C
Pulse output sensor	: Hall sensor
Display	: 4 to 20 mA Output
Power voltage	: 24 V DC
Output signal	: 4 TO 20 mA



APPLICATIONS

- » Pure Water
- » Fuel
- » Oil
- » High Viscosity Liquid
- » Heat/BTU
- » Hygienic Liquid

ELECTRO MAGNETIC FLOW METER



SPECIFICATIONS

- Line size :12 to 1000mm
- Flow rate : 0.15 to 2800 M3/hour
- Connection : Flange / Thread
- Lining :PTFE / Rubber
- Moc : Stainless steel, Mild steel
- Electrode: S.S / Hastelloy/Titanium/ Platinum
- Accuracy :0.25% to 1 %
- Battery : 24VDC / 230V AC
- Output : 4 to 20mA , RS 485,Alarm
- Optional Heat/BTU/Energy meter

APPLICATIONS

- Water abstraction
- Water treatment
- Water distribution network
- Custody transfer flow meters
- irrigation
- Waste water treatment
- Filtration plants
- Industrial water application
- acids, alkalis, alkalis solution
- Paper pulp
- Liquid foods
- BTU meter

FLOW INDICATOR , CONTROLLER, AND CALCULATOR

- Analog & Pulse Input
- Rate of Flow, Total Flow
- 16 Chr. X 2 Line LCD display
- Programmable Relay Outputs (for specific model)
- Batch Mode Operation (for specific model)
- Variety of Sensor Fittings
- Optional Opto Isolated Re Transmission Output.
- Optional RS 485 MODBUS Protocol

APPLICATIONS

- » Pure Water
- » Waste Water
- » Fuel
- » Oil
- » Air & Gas
- » Steam
- » Acid& Chemical
- » High Viscosity Liquid
- » Heat/BTU
- » Hygienic Liquid



NABL ACCREDITED CALIBRATION LABORATORY

SANSEL have rich experience of more than 20 years in the leading manufacturer of Process Control Instruments, Analytical/lab Instruments & Calibrators in south India. **SANSEL's** Products more than 10,00,000 instruments serving in industries in India and all over world. To meet need of customer requirement and to upgrade our manufacturing product, Calibration facility is established in accordance with the ISO/IEC 17025:2005. We are pleasure to inform you that our calibration lab has been Accredited by **NATIONAL ACCREDITATION BOARD FOR TESTING AND CALIBRATION LABORATORIES (NABL)** Department of science and technology, Government of India, New Delhi in the field of **ELECTRO-TECHNICAL, THERMAL** and **MECHANICAL** parameters provided with Best BMC and wide range of capabilities. Our calibration reports are acceptable to all **ISO, ISI** Certifying bodies, National and International organizations, Public and government sectors etc., We serve all industries including, pharmaceutical, Medical, chemical, Water system, Automobile, IT, Aeronautic and OEM Manufacturing.,



NABL
Accredited Laboratory
CC-2879

THERMAL → ACCREDITATION SCOPE LAB & ON-SITE

Temperature (contact) :- → Range from -80 °C to 1500 °C

TYPE OF INSTRUMENTS CALIBRATED

- | | |
|---|--|
| <ul style="list-style-type: none"> ≠ Digital Thermometer ≠ Glass Thermometer ≠ Dry Block Calibrators ≠ Thermocouple and RTD Probes ≠ Thermistors ≠ Temperature Recorder | <ul style="list-style-type: none"> ≠ Temperature Scanner / Data Logger ≠ Temperature Indicator With Sensor ≠ Temperature Gauge ≠ Temperature Transmitter ≠ Temperature Bath etc., |
|---|--|

Range	CMC
- 80 to 600°C	± 0.16°C
600 to 1000°C	± 1.8°C
1000 to 1500°C	± 3.2°C

MAPPING&VALIDATION for single or Multi point

- | | |
|--|--|
| <ul style="list-style-type: none"> ≠ Freezer ≠ Incubator ≠ Oven ≠ Furnace ≠ Storage rooms | <ul style="list-style-type: none"> ≠ Clean rooms ≠ Dryer ≠ Cold rooms ≠ Environmental chambers etc., ≠ Humidity Indicator / Chamber |
|--|--|

Range	CMC
- 80 to 250°C	± 0.16°C
250 to 600°C	± 1.28°C
600 to 1200°C	± 2.98°C
10 to 95 % RH	± 1.2 %RH

Temperature (Non-contact) :- → Range from 0 °C to 1500 °C

TYPE OF INSTRUMENTS CALIBRATED

- ≠ Non - Contact Pyrometers
- ≠ IR Thermometer
- ≠ Black Body Source etc.,

Range	CMC
0 to 100 °C	± 1.7°C
100 to 500°C	± 2.6°C
500 to 1500°C	± 3°C

Humidity :- → Range from 5 to 60 °C

TYPE OF INSTRUMENTS CALIBRATED

- ≠ Humidity sensors / Transmitter
- ≠ Humidity / Temperature logger
- ≠ Analog hygrometer
- ≠ Digital thermal hygrometer
- ≠ Thermo hygro graph
- ≠ Humidity chamber
- ≠ Environmental chamber etc.,

Range	CMC
10 to 95 % RH	± 0.77 %RH
5 to 60 °C	± 0.24°C

MECHANICAL

VERY LOW PRESSURE :- → ± 25 mbar

TYPE OF INSTRUMENTS CALIBRATED

- | | |
|---|---|
| <ul style="list-style-type: none"> ≠ Manometer ≠ Low Pressure Transducer / Transmitter ≠ Gauges ≠ Differential Pressure Indicator/Transmitter | <ul style="list-style-type: none"> ≠ Pressure Data Logger ≠ Pressure Switch ≠ Low Pressure Calibrators etc., |
|---|---|

CMC
± 0.012 mbar

ABSOLUTE PRESSURE:- → 0.60 bar to 2 bar

TYPE OF INSTRUMENTS CALIBRATED

- | | |
|--|--|
| <ul style="list-style-type: none"> ≠ Barometers ≠ Aneroid barometer ≠ Absolute gauges | <ul style="list-style-type: none"> ≠ Absolute pressure sensor / Transmitter ≠ Absolute pressure indicator / controller ≠ Logger and calibrators etc., |
|--|--|

CMC
± 0.012 mbar

VACUUM:- → - 0.1 bar to - 0.99 bar

TYPE OF INSTRUMENTS CALIBRATED

- | | |
|---|--|
| <ul style="list-style-type: none"> ≠ Vacuum Gauge ≠ Vacuum Transducer / Transmitter ≠ Vacuum Indicator / Controller / Switch | <ul style="list-style-type: none"> ≠ Vacuum Logger ≠ Calibrators etc., |
|---|--|

CMC
± 0.012 mbar

PRESSURE(HYDRAULIC AND PNEUMATIC):- → 1 bar to 1000 bar

→ 0.1 bar to 35 bar

TYPE OF INSTRUMENTS CALIBRATED

- | <ul style="list-style-type: none"> ≠ Pressure Calibrators ≠ Pressure Transducer ≠ Pressure Transmitter ≠ Digital pressure gauges | <ul style="list-style-type: none"> ≠ Pressure Controller ≠ Pneumatic pressure gauges ≠ Hydraulic pressure gauges ≠ Differential pressure gauges ≠ Differential pressure Indicators etc., | <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Range</th> <th style="text-align: left;">CMC</th> </tr> </thead> <tbody> <tr> <td>2 bar</td> <td>± 0.09mbar</td> </tr> <tr> <td>35 bar</td> <td>± 0.015 bar</td> </tr> <tr> <td>200 bar</td> <td>± 0.012bar</td> </tr> <tr> <td>1000 bar</td> <td>± 0.09bar</td> </tr> </tbody> </table> | Range | CMC | 2 bar | ± 0.09mbar | 35 bar | ± 0.015 bar | 200 bar | ± 0.012bar | 1000 bar | ± 0.09bar |
|--|---|---|-------|-----|-------|------------|--------|-------------|---------|------------|----------|-----------|
| Range | CMC | | | | | | | | | | | |
| 2 bar | ± 0.09mbar | | | | | | | | | | | |
| 35 bar | ± 0.015 bar | | | | | | | | | | | |
| 200 bar | ± 0.012bar | | | | | | | | | | | |
| 1000 bar | ± 0.09bar | | | | | | | | | | | |

MASS / WEIGHT :- → 1 mg to 50 Kg

TYPE OF INSTRUMENTS CALIBRATED (Accuracy class starts from E2 class)

- | <ul style="list-style-type: none"> ≠ Standard Weight Box ≠ Weights etc., | <p style="text-align: center;">(E2, F1, F2, M1, M2 etc.,)</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Range</th> <th style="text-align: left;">CMC</th> </tr> </thead> <tbody> <tr> <td>1mg to 5g</td> <td>± 0.002 to 0.004 mg</td> </tr> <tr> <td>5g to 100g</td> <td>± 0.028mg</td> </tr> <tr> <td>200g</td> <td>± 0.1mg</td> </tr> </tbody> </table> | Range | CMC | 1mg to 5g | ± 0.002 to 0.004 mg | 5g to 100g | ± 0.028mg | 200g | ± 0.1mg |
|--|--|-------|-----|-----------|---------------------|------------|-----------|------|---------|
| Range | CMC | | | | | | | | |
| 1mg to 5g | ± 0.002 to 0.004 mg | | | | | | | | |
| 5g to 100g | ± 0.028mg | | | | | | | | |
| 200g | ± 0.1mg | | | | | | | | |



WEIGHING SCALE AND BALANCE:- 1mg to 300 Kg

- ≠ Micro balance
- ≠ Analytical balance
- ≠ Digital balance
- ≠ Weighing Scale

Range	CMC
Up to 5g / 20g (L.C : 0.001mg)	± 0.005 / 0.008mg
Up to 100g (L.C : 0.01mg)	± 0.05mg
Up to 220g (L.C : 0.1mg)	± 0.05mg

VOLUME:- 1µl to 5l

TYPE OF INSTRUMENTS CALIBRATED

- ≠ Pipette
- ≠ Burette
- ≠ Flask
- ≠ Beaker
- ≠ All Type Of Measuring Cylinder etc.,

Range	CMC
1 µl	± 0.05µl
Up to 10ml	± 0.7ml
5000 ml	± 0.23ml

ACOUSTIC PRESSURE:- 94 & 114dB

TYPE OF INSTRUMENTS CALIBRATED

- ≠ Sound Level Meter etc.,

CMC
± 0.21dB

CONTACT RPM/TACHOMETER:- 100 RPM to 10000 RPM

NON CONTACT RPM/TACHOMETER:- 12 RPM to 99,950 RPM

TYPE OF INSTRUMENTS CALIBRATED

- ≠ Contact & Non Contact Type Rpm Indicator
- ≠ Contact & Non Contact Type Tachometer
- ≠ Centrifugal etc.,

Range	CMC
100 to 9950 rpm	± 0.83 to 0.023% rdg
12 to 99950 rpm	± 1.40 to 0.012% rdg

Dimension (Basic Instrument, Gauge etc.,)

- ≠ Vernier calipers
- ≠ External Micrometer
- ≠ Plunger Dial Gauge
- ≠ Lever Type Dial
- ≠ Bore Gauge
- ≠ Height Gauges
- ≠ Depth Micro Meter
- ≠ Depth Gauges
- ≠ Thickenss Gauges
- ≠ Snap Gauge
- ≠ Feeler Gauge
- ≠ Internal Micrometer
- ≠ Width Gauge
- ≠ Dial Caliper Gauge
- ≠ Micro Meter Setting
- ≠ Plain Plug Gauge
- ≠ Pistol Caliper
- ≠ Thread Measuring wires
- ≠ Measuring Pin

ELECTRO-TECHNICAL

- ≠ Voltage : 1 mV to 1000 V AC/DC
- ≠ Resistance : 1 Ω to 100 GΩ
- ≠ Current : 10 µA to 1000 A AC/DC
- ≠ Frequency : 1 Hz to 10 MHz
- ≠ TC, RTD : PT-100, J, K, R, S, T, E, B, N
- ≠ capacitance: 10 nF to 1 µF

TYPE OF INSTRUMENTS CALIBRATED

- ≠ Multi Product Calibrator
- ≠ Multi Function Calibrator
- ≠ Digital Multimeter
- ≠ Frequency Counter
- ≠ Signal Generator
- ≠ Decade Resistance Box
- ≠ Meggar
- ≠ Power Supplies
- ≠ Analog Voltmeter / Ammeter
- ≠ Digital Voltmeter / Ammeter
- ≠ AC / DC Clamp Meter
- ≠ Temperature Indicator / Controller
- ≠ I/P, P/I Converter
- ≠ Valve Positioner
- ≠ Process Flow Indicator
- ≠ LCR Meter
- ≠ Process Flow Totalizer etc.,

Range	CMC
200 to 850°C	± 0.02°C

HIGH VOLTAGE:- 1 kV to 30 kV

TYPE OF INSTRUMENTS CALIBRATED

- ≠ AC / DC High voltage source

Range	CMC
1kV to 25 kV AC	± 6.3 %
1kV to 30 kV DC	± 2.94 %

TIMER :- 1s to 99999 s

TYPE OF INSTRUMENTS CALIBRATED

- ≠ Digital Timer
- ≠ Analog Timer
- ≠ Stop watch etc.,

Range	CMC
1s to 3600 s	± 0.09s to 0.54s
3600s to 86400s	± 0.54 to 10.37s

OTHER CALIBRATION AND TESTING INSTRUMENTS

- ≠ Flow meter
- ≠ pH meter
- ≠ TDS / Conductivity meter
- ≠ Lux meter
- ≠ Anemo meter
- ≠ Laminar Airflow meter
- ≠ Heating mantel
- ≠ Hot / Cooling plate
- ≠ Counter
- ≠ Magnetic stirrer
- ≠ Spectrophoto meter
- ≠ Nephelo meter
- ≠ Stroboscope
- ≠ Dead weight tester
- ≠ Spring balance
- ≠ Moisture balance
- ≠ Hydro meter



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