sonepar
Powered *by* **Difference**

masibus®

Calibrators & Calibration

Masibus Designed India' First Digital Calibrator in 1979

INTRODUCTION

WHAT IS CALIBRATION?

Calibration refers to the process of adjusting or measuring an instrument or system to ensure that it produces accurate and reliable results.

In other words, it involves comparing the readings or output of a device to a standard or known value to determine its accuracy and correct any discrepancies.

CALIBRATION IS REQUIRED FOR

- Protect from process failure
- Increase reliability and consistency of process instrument
- Achieve better process accuracy
- Minimize the DRIFT of process instrument
- Assure compliance and certification
- Provide traceability from known standard
- Ensure safety of the plant
- Save money and increase productivity
- Ensure quality & finish work on time

THE COSTS AND RISKS OF NOT CALIBRATING

- Neglecting calibration can lead to production downtime, quality problems and product recalls.
- Risking employee safety.
- Risking customer/ consumer safety.
- Loosing licence to operate due to not meeting regulatory requirements.
- Direct economical losses in businesses where invoicing is based on process measurements.

uCAL

UC12
Universal Calibrator

Portable multifunction calibrator with high accuracy in all modes of operation.

Graphical user interface for precise measuring and sourcing of electrical and physical parameters.

Designed to give maximum battery life in one full charge, the backlight is adjustable for power saving.

Shortcut keys to operate easily for input selection for measure and source/ measure respectively.

Comes with a mini USB connector for charging, logged data retrieval and firmware upgrade.

RoHS

Sourcing and measurement capabilities with independent parameter and range selection.

It has mA/ V/ mV/ mA (2W)/ switch- test / RTD/ TC/ measurement capability & also has mA/ V/ mV/ mA(2W)/ Resistance/ RTD/ TC/ Frequency/ Pulse source capability.

TECHNICAL SPECIFICATIONS

Electrical Measurement Parameters and Accuracy

Parameter	Range	Resolution	Accuracy
V	0 to 30.00 VDC	0.001 V	±0.02% of reading ± 2 count
mA	0 to 24.000 mA	0.001 mA	±0.02% of reading ± 2 count

Electrical Simulation Parameters and Accuracy

Parameter	Range	Resolution	Accuracy
V	0 to 12.000 VDC	0.001 V	±0.02% of reading ± 2 count
mA	0 to 24.000 mA	0.001 mA	±0.02% of reading ± 2 count

Thermocouple/mV Measurement /Simulation Resolution and Accuracy

TC Type	Range	Resolution	Accuracy
E	-200.0 to 1000.0 °C	0.1 °C	0.3 °C
J	-200.0 to 1200.0 °C	0.1 °C	0.3 °C
K	-200.0 to 1372.0 °C	0.1 °C	0.3 °C
T	-200.0 to 400.0 °C	0.1 °C	0.3 °C
B	450.0 to 1800.0 °C	0.1 °C	0.5 °C
R	0.0 to 1750.0 °C	0.1 °C	0.5 °C
S	0 to 1750.0 °C	0.1 °C	0.5 °C
N	-200.0 to 1300.0 °C	0.1 °C	0.3 °C
mV	-10.000 to 80.000 mV	0.001 mV	±0.02% of reading ± 4uV
	-10.00 to 250.00 mV	0.01mV	±0.02% of reading ± 0.02mV

Note: Temperature standard ITS-90

Frequency Generation

Range	Resolution
0.0005 to 0.5Hz	0.00001 Hz
0.5 to 50 Hz	0.0001 Hz
50 to 500 Hz	0.001 Hz
500 to 5000 Hz	0.01 Hz
5000 to 10000 Hz	0.1 Hz

Frequency Measurement

Range	Resolution
0.0143 to 9.9999	0.0001 Hz
10 to 99.999Hz	0.001 Hz
100 to 999.99Hz	0.01 Hz
1000 to 9999.9 Hz	0.1 Hz
10000 to 50000 Hz	1 Hz

Feature	Specification
Trigger Level	0 to 12V in 1 V Steps
Accuracy	±0.01% of Reading ± 1 count
Supported Units	Hz, kHz, cph, cpm, sec., msec., usec.

Measurement & Simulation Range

Parameters	Range	Resolution	Accuracy
Resistance (Ohms)	0 to 400 Ω	0.01Ω	4 wire measurement ±0.02% of reading ±0.01Ω Simulation: ±0.02% of reading ±0.02Ω
	400 to 4000Ω#	0.1Ω	4 Wire measurement: ±0.02% of reading ±0.1Ω, Simulation: ±0.02% of reading ±0.15Ω
Pt10 to Pt1000	-200 to 200 °C	Pt10 to Pt400: 0.01°C Pt500, Pt1000: 0.1°C	4 wire measurement: ±0.15 °C Simulation*: ±0.15 °C
	200 to 600 °C		4 wire measurement: ±0.2 °C Simulation*: ±0.25 °C
	600 to 850 °C		4 wire measurement: ±0.3 °C Simulation*: ±0.35 °C
Ni100	-60 to 180 °C	0.01 °C	4 wire measurement: ±0.1 °C Simulation* : ±0.15 °C
Ni120	-80 to 260 °C	0.01 °C	
Cu10 to Cu100	-200 to 260 °C	0.01 °C	4 wire measurement: ±0.2 °C Simulation*: ±0.8°C

General Specifications

Supported Units for RTD/ TC Type	°C/ °F/ °K
RTD Measurement Current	300 uA
Maximum Resistance Excitation Current (Simulation-resistance/ RTD Mode)	3 mA (0...650 Ω measure/source with I exec 2.0V/ rsim (650....4000Ω)
Settling Time (Pulsed Currents RTD Simulation)	>1 ms
CJC Error (For Thermocouple) Internal Reference Junction)	≤± 0.5 °C
CJC Selection	Manual/ internal/ external*
Temperature Coefficient	≤30 ppm
Input Impedance	TC/ mV/ V/ frequency/ pulse >1MΩ mA =10 Ω
Response Time	Input <100ms, output <100ms
Load Impedance	>4.7KΩ for TC/mV/V/pulse/frequency O/P <750Ω for mA O/P
Isolation	500VDC between measure section & source/ measure section
Data Logging	Logged data is stored in a user defined file in internal memory Periodic logging: 150000 readings max.
Communication Interface	USB 2.0

Power Supply

Battery Type	Rechargeable Li-ion battery pack, 3000mAh 3.7V
Charging Time	<5 hours max.
Charger Supply	100-240 VAC, 50/60 Hz; Output 5V DC@1A
Battery Life on Full Charge	>17 hours for RTD/Ω/TC/V/mV measure/source with minimum backlight. >9 hours for mA generation with minimum backlight. (24VDC @12mA)

Display & Keys

Display	3.2" TFT LCD, 262K color, graphical, 48.6 mm x 64.8 mm, 240x320 pixels, white LED backlight
Keys	9 Membrane keys

Special Features

Loop Power Output	24V DC, ±10% (24mA maximum)
HART mA Loop Resistor	250 Ω ± 20%
Automatic Wire Detection	Automatic detection RTD measure wire connection. (2-wire, 3-wire or 4-wire)
Switch Test	• Potential free contacts Trigger level : 24V, 24mA (2V) • Voltage level detection Trigger level : 0 to 30V in 1V steps

APPLICATIONS

- Calibrating and checking temperature indicators & controllers, recorders, temperature transmitters, signal conditioners, etc.
- Laboratory and site calibration purpose of process instruments
- DRIFT test of transmitters and transducers
- Simulation of resistance for position indicators
- As a sourcing device for mV signals for load cell amplifiers
- Check flow measurement instruments vide frequency/ pulse parameters

tCAL

TC12+
Temperature Calibrator

Portable multifunction temperature calibrator with high accuracy in all modes of operation.

Graphical user interface for precise measuring and sourcing of electrical and physical parameters.

Designed to give maximum battery life in one full charge, the backlight is adjustable for power saving.

Shortcut keys to operate easily for input selection for measure and source/ measure respectively.

Comes with a mini USB connector for charging, logged data retrieval and firmware upgrade.

RoHS

Sourcing and measurement capabilities with independent parameter and range selection.

It has mA/ V/ mV/ mA (2W)/ switch- test / RTD/ TC/ measurement capability & also has resistance/ RTD/ TC source capability.

TECHNICAL SPECIFICATIONS

Measurement & Simulation Range

Parameters	Range	Resolution	Accuracy
Resistance (Ohms)	0 to 400 Ω	0.01Ω	4 Wire measurement ±0.02% of reading ±0.01Ω Simulation: ±0.02% of reading ±0.02Ω
	400 to 4000Ω#	0.1Ω	4 Wire measurement: ±0.02% of reading ±0.1Ω Simulation: ±0.02% of reading ± 0.15Ω
Pt10 to Pt1000	-200 to 200 °C	Pt10 to Pt400: 0.01°C Pt500, Pt1000: 0.1°C	4 Wire measurement: ±0.15 °C, Simulation*: ±0.15 °C
	200 to 600 °C		4 Wire measurement: ±0.2 °C, Simulation*: ±0.25 °C
	600 to 850 °C		4 Wire measurement: ±0.3 °C, Simulation*: ±0.35 °C
Ni100	-60 to 180 °C	0.01 °C	4 Wire measurement: ±0.1 °C
Ni120	-80 to 260 °C	0.01 °C	Simulation*: ±0.15 °C
Cu10 to Cu100	-200 to 260 °C	0.01 °C	4 Wire measurement: ±0.2 °C, Simulation*: ±0.8 °C
		0 to	

Note: #For 4 wire Resistance measurement 0.01Ω resolution available in 0 to1600 Ω range
*Accuracy is valid with an excitation current >0.2mA (0...400 ohm), >0.1mA (400...4000 ohm)
**Read accuracy is based on 4-wire input. For 3-wire RTD measurements, assuming all three RTD leads are matched, add 1.0°C Pt10 and Cu10), 0.6°C (Pt50 and Cu50), and 0.4°C (other RTD types) to the specifications

Electrical Measurement Parameters & Accuracy

Parameter	Range	Resolution	Accuracy
V	0 to 30.00 VDC	0.001 V	±0.02% of reading ± 2 count
mA	0 to 24.000 mA	0.001 mA	±0.02% of reading ± 2 count

Thermocouple/mV Measurement/Simulation Resolution & Accuracy@20-30°C

TC Type	Range	Resolution	Accuracy▲
E	-200.0 to 1000.0 °C	0.1 °C	0.3 °C± 4uV
J	-200.0 to 1200.0 °C	0.1 °C	0.3 °C± 4uV
K	-200.0 to 1372.0 °C	0.1 °C	0.3 °C± 4uV
T	-200.0 to 400.0 °C	0.1 °C	0.3 °C± 4uV
B	450.0 to 1800.0 °C	0.1 °C	0.5 °C± 4uV
R	0.0 to 1750.0 °C	0.1 °C	0.5 °C± 4uV
S	0 to 1750.0 °C	0.1 °C	0.5 °C± 4uV
N	-200.0 to 1300.0°C	0.1 °C	0.3 °C± 4uV
mV	-10.000 to 80.000 mV	0.001 mV	±0.02% of reading ± 4uV
	-10.00 to 250.00 mV	0.01mV	±0.02% of reading ± 0.02mV

Note: Temperature standard ITS-90
▲Degree equivalent to 4uV against respective readings to be added to above mentioned accuracy for TC input.

Power Supply

Battery Type	Rechargeable Li-ion battery pack, 2300mAh 3.7V
Charging Time	<5 hours max.
Charger Supply	100-240 VAC, 50/60 Hz; Output 5V DC@1A
Battery Life on Full Charge	Continuous operation (measure or source) >17 hours Continuous operation (12mA (24V) measure) >9 hours
Battery Status Indication	Battery symbol displayed with % power remaining

Compatible RTD Types

Pt10 (385)	Pt400 (385)	Ni100 (672)	Cu10 (427)
Pt50 (385)	Pt500 (385)	Ni100 (618)	Cu50 (427)
Pt100 (385)	Pt1000 (385)	Ni120 (672)	Cu100 (427)
Pt200 (385)	Pt100 (3926)		

General Specifications

Display Mode	**Measure:** mA/ V/ mV/ mA(2W)/ switch-test / RTD/ TC **Source:** Resistance/ RTD/ TC
Supported Units for RTD/ TC Type	°C/ °F/ °K
RTD Measurement Current	300 uA
Maximum Resistance Excitation Current (Simulation-Resistance/ RTD mode)	3 mA (0...650 Ω) Iexci 2.0V/ Rsim (650....4000Ω)
SettlingTtime (Pulsed Currents RTD Simulation)	>1 ms
CJC Error (For Thermocouple) Internal Reference Junction	≤± 0.5 °C
CJC selection	Manual/ internal/ external(1)
Max. Input Voltage (EM Terminal)	30 VDC
Temperature Coefficient	≤30 ppm
Input Impedance	TC/ mV/ V >1MΩ mA: 10 Ω
Response Time	Input <100ms, output <100ms
Load Impedance	>4.7KΩ for TC/mV
Display Update Rate	10 readings / sec.
Isolation	500VDC between mA/V measure and RTD /Ω /TC/mV
Data logging	Logged data is stored in a user defined file in internal memory Periodic logging: 150000 readings max.
Communication Interface	USB 2.0

(1)with RTD sensor at RTD terminal for External CJC

APPLICATIONS

- Calibrating and checking temperature indicator/ controllers, recorders, temperature transmitters, signal conditioners, etc.
- Laboratory and site calibration purpose
- Measure and simulate thermocouple signals
- Calibration of transmitters and transducers
- DRIFT test of transmitters and transducers

Calibration Test Bench Offerings

Calibration Test Benches are workstations for the maintenance and calibration of process instruments. Masibus Test Bench configurations are developed with intelligence of versatile & modular design, keeping in mind the instrument testing & calibration procedures.

The modular concept gives it the ease and makes it possible for a wide range of configurations & performance capabilities. All calibration benches are custom-built and engineered, meeting industry applications & standards of maintenance & calibrations of various devices used in the plant. It helps industry to maintain calibration data & healthiness of all field devices to give optimum performance.

Key Differentiators

- Made of heavy grade, high quality CRCA and aluminium fabrications
- Load capacity: 200kg modular design, easy change of arrangement
- Flexible maintenance - Device modular structure
- Complete aluminium profile based option availability
- Proper electrical earthing provided on test bench
- Documenting version available with PC connectivity
- Accurately fabricated, welded & powder coated structure
- Manual/ automatic pressure & temperature calibration choice
- Options for HART, PA, FF communication available
- Smooth surface & ultra simple to clean
- Superior quality & sleek look
- Table top: Laminated chip board of 25 mm thickness

Types of Test Bench

Multi Function Test Bench

- Calibration facility for pressure, temperature & electrical instruments
- Flexible maintenance - Device modules structure
- Option for (HART, PA, FF) communication
- Documenting version available with PC connectivity

Pressure Test Bench

- Highly accurate pressure calibration for range from vacuum to high pressure upto 1000 bar
- Manual/ automatic pressure calibration choice
- Pneumatic or hydraulic versions
- Precise pressure controller source from vacuum to 210 bar

Temperature Test Bench

- Manual/ fully automatic temperature calibration choice
- Provision of inserts of standard and customized size of holes for temperature dry blocks
- Option for (HART, PA, FF) communication

Electrical Test Bench

- ESD protection enables safe handling of delicate components
- Isolation transformers, fault current & overload protections & emergency stop switch

iCAL

LC12
The Ultimate Loop Calibrator

It is designed to provide base accuracy of 0.02% of reading in all modes of operation.

2W simulator transmitter, mA simulator, voltage simulator and read/ power are unique features for loop testing

It has automatic switch test feature.

Shortcut keys to operate easily for input selection for measure and source/ measure respectively.

Comes with a mini USB connector for charging, logged data retrieval and firmware upgrade.

RoHS

Automatic step/ ramp output with auto/ man selection, data logging, max./ min./ average values, scaling to engineering units & filter settings enhances the use of LC 12.

Standard accessories provided patch cables, charger, USB cable, instruction manual, logged data retrieval software CD and calibration certificate, all in an attractive carrying case.

TECHNICAL SPECIFICATIONS

Measurement Range

Parameter	Range	Resolution	Accuracy
mV	0-250.00 mV	0.01 mV	±0.02% of reading ± 2 counts
V	0-30.000 VDC	0.001 V	±0.02% of reading ± 2 counts
mA	0-24.000 mA	0.001 mA	±0.02% of reading ± 2 counts

Source Range

Parameter	Range	Resolution	Accuracy
mV	0-250.00 mV	0.01 mV	±0.02% of reading± 2 counts
V	0-12.000 VDC	0.001 V	±0.02% of reading ± 2 counts
mA	0-24.000 mA	0.001 mA	±0.02% of reading ± 2 counts

General Specifications

Display Mode	Measure + Source, Measure only, Source only, Switch test + Source
Max. Input Voltage	30 ppm
Input Impedance Measure	V, mV >1MΩ mA =10 Ω
Response Time	Input <100ms Output <100ms
Load Impedance	>10 KΩ for mV/V <750 Ω for mA
Display Update Rate	10 readings / sec.
Isolation	500VDC between measure & source
Data logging	Logged data is stored in a user defined file in internal memory Periodic logging: 150000 readings max.
Communication Interface	USB 2.0

Display and Keys

Display	2.4" TFT LCD, 262K Color, Graphical, 42.72 mm x 60.26 mm, 240x320 pixels, White LED backlight
Keys	6 Membrane keys

Special Features

Loop Power Output	24V DC, ±10% (24mA maximum)
HART mA Loop Resistor	250 Ω ±20%
Special Function	Step/Ramp functions: Automatic/manual, $\sqrt{x}$, x^2: for measure & source
Switch Test	• Potential free contacts Trigger level : 24V, 24mA (2V) • Voltage level detection Trigger level : 0 to 30V in 1V steps Input impedance : >1 MΩ

Power supply

Battery Type	Rechargeable Li-ion battery pack, 2300mAh 3.7V
Charging Time	<5 hours max.
Charger Supply	100-240 VAC, 50/60 Hz; Output 5V DC@1A
Battery Life on Full Charge	>18 hours max. for mA, mV, V measurement with minimum backlight brightness. > 8 hours max. for 12mA generation with minimum backlight brightness
Battery Status Indication	Battery symbol displayed with % power remaining

Physical

Dimensions (in mm)	161.7 (L) x 82.1 (W) x 39.5 (H)
Housing Material	ABS plastic
Electrical Terminals	Four nos., 2 mm safety sockets
Weight	<300 grams
Protection	IP20

Environmental

Operating Temperature	0 to 55 °C
Operating Temperature While Charging Batteries	0 to 45 °C
Storage Temperature	-20° to 60 °C
Relative Humidity	30% to 90% non-condensing
Warm-up Time	15 minutes

Accessories

Calibration Certificate
User guide
2 Sets of 2mm to 2mm Banana Cable
2 Sets of 2mm Crocodile Cable
2 Sets of connecting plug 4mm to 2mm
USB A Male to USB mini B Male Cable for PC Communication and Charging
5 VDC Charging Adapter
Carrying Bag
Data Logging Software CD-mCAL

Directive Conformity*

Electromagnetic Compatibility Directive 2014/30/EU	EN 61326-1:2013
Low Voltage Directive 2014/68/EU	EN 61010-1:2010

*(Applicable only for CE marked)

APPLICATIONS

- Loop check and calibration
- Calibration of transmitters and transducers
- Switch test and calibration
- Drift test of transmitters and transducers

iCAL

LC11
The Ultimate Loop Calibrator

It has either measure only or source only feature, designed to provide base accuracy of 0.02% of reading

2W simulator transmitter, mA simulator, voltage simulator and read/ power are unique features for loop testing

Designed to give maximum battery life in one full charge, the backlight is adjustable for power saving.

Shortcut keys to operate easily for input selection for measure and source/ measure respectively.

Comes with a mini USB connector for charging, logged data retrieval and firmware upgrade.

RoHS

It is used as a current loop calibrator, digital loop calibrator, current & voltage calibrator, current source, voltage source, current measure, voltage measure.

It is the precision current & voltage calibrator for sourcing or measuring & simulating loop current, mV & V. It is compact & easy to use hand held calibrator with graphical user interface.

TECHNICAL SPECIFICATIONS

Measurement Range

Parameter	Range	Resolution	Accuracy
mV	0-250.00 mV	0.01 mV	±0.02% of reading ± 2 counts
V	0-30.000 VDC	0.001 V	±0.02% of reading ± 2 counts
mA	0-24.000 mA	0.001 mA	±0.02% of reading ± 2 counts

Source Range

Parameter	Range	Resolution	Accuracy
mV	0-250.00 mV	0.01 mV	±0.02% of reading ± 2 counts
V	0-12.000 VDC	0.001 V	±0.02% of reading ± 2 counts
mA	0-24.000 mA	0.001 mA	±0.02% of reading ± 2 counts

General Specifications

Display Mode	Measure only or source only
Max. Input Voltage	30 V DC
Temperature Coefficient	30 ppm
Input Impedance Measure	V, mV >1MΩ mA =10 Ω
Response Time	Input <100ms Output <100ms
Load Impedance	>10 KΩ for mV/V <750 Ω for mA
Display Update Rate	10 readings / sec.
Data logging	Logged data is stored in a user defined file in internal memory Periodic logging: 150000 readings max.
Communication Interface	USB 2.0

Display and Keys

Display	2.4" TFT LCD, 262K Color, Graphical, 42.72 mm x 60.26 mm, 240x320 pixels, White LED backlight
Keys	6 Membrane keys

Special Features

Loop Power Output	24V DC, ±10% (24mA maximum)
HART mA Loop Resistor	250 Ω ±20%
Special Function	Step/Ramp functions: Automatic/Manual, $\sqrt{x}$, x^2: for measure & source

Power supply

Battery Type	Rechargeable Li-ion battery pack, 2300mAh 3.7V
Charging Time	<5 hours max.
Charger Supply	100-240 VAC, 50/60 Hz; Output 5V DC@1A
Battery Life on Full Charge	>20 hours max. for mA, mV, V measurement with minimum backlight brightness. > 10 hours max. for 12mA generation with minimum backlight brightness
Battery Status Indication	Battery symbol displayed with % power remaining

Physical

Dimensions (in mm)	161.7 (L) x 82.1 (W) x 39.5 (H)
Housing Material	ABS Plastic
Electrical Terminals	Two nos., 2 mm safety sockets
Weight	<300 grams
Protection	IP20

Environmental

Operating Temperature	0 to 55 °C
Operating Temperature While Charging Batteries	0 to 45 °C
Storage Temperature	-20° to 60 °C
Relative Humidity	30% to 90% non-condensing
Warm-up Time	15 Minutes

Accessories

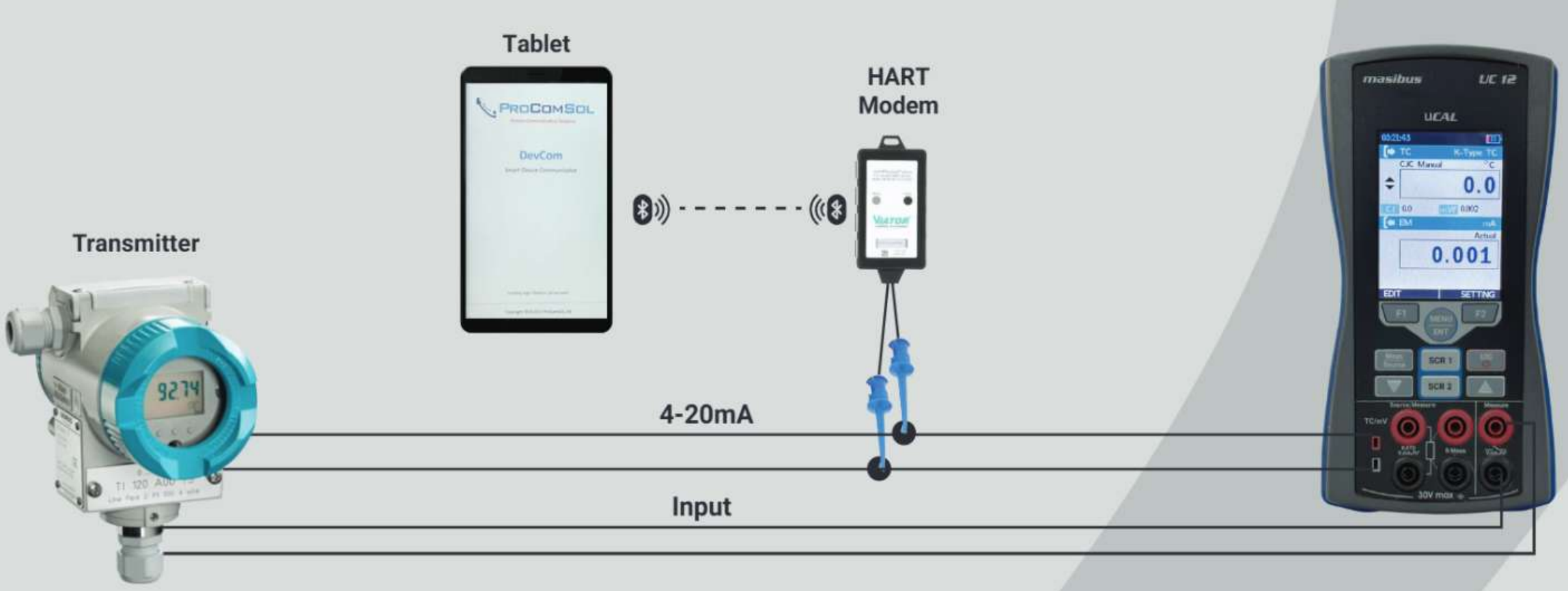
Calibration Certificate
User Guide
1 Set of 2mm to 2mm Banana Cable
1 Set of 2mm Crocodile Cable
2 Sets of connecting plug 4mm to 2mm
USB A Male to USB mini B Male cable for PC Communication and Charging
5 VDC Charging Adapter
Carrying Bag
Data Logging Software CD-mCAL

APPLICATIONS

- Loop check and calibration
- Calibration of transmitters and transducers
- Switch test and calibration
- Drift test of transmitters and transducers

HART calibration using UC12

HART Communicator is a device used in the process control industry to configure, monitor, and diagnose field instruments. With a HART Communicator that includes a UC12 process calibrator option, users can calibrate and verify their field instruments quickly and easily, without the need for additional tools.



The process calibrator option allows users to apply a known input signal to the instrument and compare its output to the expected value. This enables accurate calibration and verification of the instrument's accuracy.

In addition, a HART Communicator with a process calibrator option typically includes additional features such as measurement and simulation of electrical signals, allowing users to test and diagnose a wider range of instruments.

Special Features

- Full HART Device Description (DD) support of all HART devices with process calibrator
- Perform HART trim on HART devices
- Convenient wireless connectivity to HART modem
- Easy to use, fast connect and view HART data
- Connectivity through bluetooth and USB
- Use mobile and laptop HART communicator

CALIBRATION TRAINING FOR THE PROFESSIONAL

We provide customized Workshop and Training on Calibration for Industrial Professionals (Technicians and Engineers)

Masibus Calibration Training/Workshop is Structured to Enhance your Engineering Expertise and will Include:-

- ON Site & OFF Site Calibration Workshop, Online Training for Professional Outside India
- General Calibration Measurement and Understanding of Calibration Terms
- Training on Measurement of Temperature and Pressure Parameters
- Hands-On Supervised Traning with ISO 9001:2015 Calibration Requirement
- Training Certificate after the Workshop is Completed

Multi Function Test Bench

Pressure Test Bench

Temperature Test Bench

Electrical Test Bench

sonepar
Powered by Difference

masibus

Sonepar India Pvt. Ltd.

Gandhinagar
Address: B-30, G.I.D.C. Electronic Estate, Sector - 25, Gandhinagar - 382 024, Gujarat, India
E-mail: sales@masibus.com
Ph. No.: +91 9662042824

Goa
Address: C-6, Phase 1-A, Verna Industrial Estate, Verna, Salcette - 403722, Goa, India
E-mail: sales@masibus.com
Ph. No.: +91 9822135796

Pune
E-mail: sales@masibus.com
Ph. No.: +91 9689937234

Bengaluru
E-mail: sales@masibus.com
Ph. No.: +91 8732971943

Chennai
E-mail: sales@masibus.com
Ph. No.: +91 9725154195

Delhi
E-mail: sales@masibus.com
Ph. No.: +91 9909949742

Hyderabad
E-mail: sales@masibus.com
Ph. No.: +91 9909949062

Kolkata
E-mail: sales@masibus.com
Ph. No.: +91 9512003359

Mumbai
E-mail: sales@masibus.com
Ph. No.: +91 9689937234

Gurgaon
Address: Plot No. 229/239, Village - Kherki Daula, Sector 76, Gurugram, Haryana, 122004, India

Kolkata
Address: 503, Block 4B, Ecospace Business Park, Newtown, Rajarhat, Kolkata, West Bengal, 700160, India

Chennai
Address: Plot No. 1, Gokul Garden, Melnallathur, Thiruvallur, Chennai, Tamil Nadu, 602002, India

Aurangabad
Address: FP-42, Five Star Industrial Area, Shendra MIDC, Aurangabad, Maharashtra, 431201, India

Panchkula
Address: Plot No. 263, Industrial Area, Phase-II, Panchkula, Haryana, 134113, India

Bhubaneshwar
Address: Plot No. 443, 1st Floor, Saheed Nagar, Bhubaneshwar, Odisha, 751007, India

Website: www.soneparindia.com
Website: www.masibus.com
E-mail: sales@masibus.com

Masibus Automation & Instrumentation FZC

Sharjah
Address: A2-102, SAIF Zone, PO Box 120145 Sharjah, UAE

E-mail: sharjahall@masibus.com
Ph. No.: +971 65574650

R2F/0925