



Calibrators & Calibration



Masibus Designed India's First Digital Calibrator in 1979

INTRODUCTION

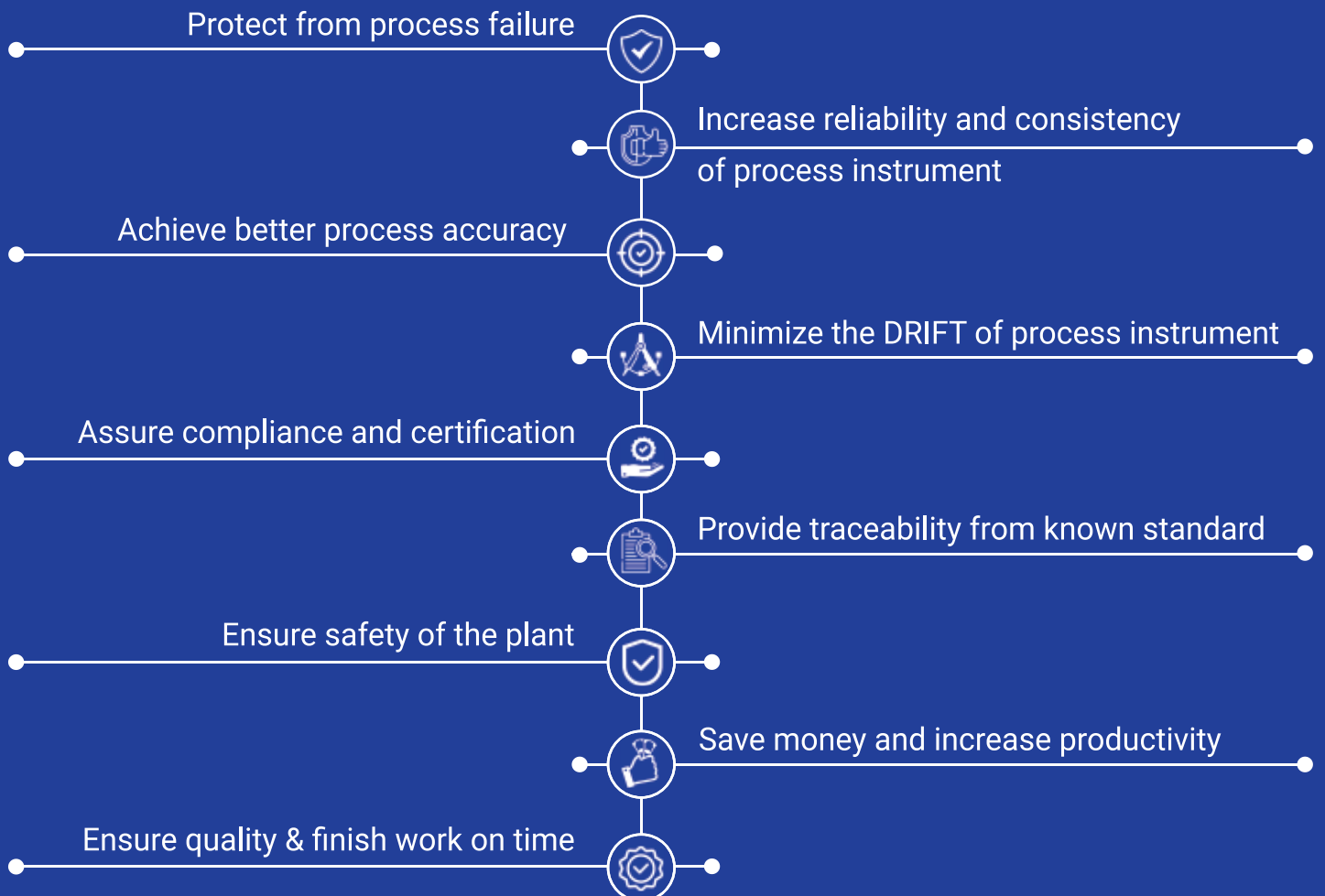
WHAT IS CALIBRATION?

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





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.

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				Frequency Generation	
Parameter	Range	Resolution	Accuracy	Range	Resolution
V	0 to 30.00 VDC	0.001 V	±0.02% of reading ± 2 count	0.0005 to 0.5Hz	0.00001 Hz
mA	0 to 24.000 mA	0.001 mA	±0.02% of reading ± 2 count	0.5 to 50 Hz	0.0001 Hz
Electrical Simulation Parameters and Accuracy				50 to 500 Hz	0.001 Hz
Parameter	Range	Resolution	Accuracy	500 to 5000 Hz	0.01 Hz
V	0 to 12.000 VDC	0.001 V	±0.02% of reading ± 2 count	5000 to 10000 Hz	0.1 Hz
mA	0 to 24.000 mA	0.001 mA	±0.02% of reading ± 2 count	Frequency Measurement	
Thermocouple/mV Measurement /Simulation Resolution and Accuracy				Range	Resolution
TC Type	Range	Resolution	Accuracy	0.0143 to 9.9999	0.0001 Hz
E	-200.0 to 1000.0 °C	0.1 °C	0.3 °C	10 to 99.999Hz	0.001 Hz
J	-200.0 to 1200.0 °C	0.1 °C	0.3 °C	100 to 999.99Hz	0.01 Hz
K	-200.0 to 1372.0 °C	0.1 °C	0.3 °C	1000 to 9999.9 Hz	0.1 Hz
T	-200.0 to 400.0 °C	0.1 °C	0.3 °C	10000 to 50000 Hz	1 Hz
B	450.0 to 1800.0 °C	0.1 °C	0.5 °C	Feature	Specification
R	0.0 to 1750.0 °C	0.1 °C	0.5 °C	Trigger Level	0 to 12V in 1 V Steps
S	0 to 1750.0 °C	0.1 °C	0.5 °C	Accuracy	±0.01% of Reading ± 1 count
N	-200.0 to 1300.0 °C	0.1 °C	0.3 °C	Supported Units	Hz, kHz, cph, cpm, sec., msec., usec.
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					
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	
General Specifications				Power Supply	
Supported Units for RTD/ TC Type		°C/ °F/ °K		Battery Type	Rechargeable Li-ion battery pack, 3000mAh 3.7V
RTD Measurement Current		300 uA		Charging Time	<5 hours max.
Maximum Resistance Excitation Current (Simulation-resistance/ RTD Mode)		3 mA (0...650 Ω measure/source with I exec 2.0V/ rsim (650....4000Ω)		Charger Supply	100-240 VAC, 50/60 Hz; Output 5V DC@1A
Settling Time (Pulsed Currents RTD Simulation)		>1 ms		Battery Life on Full Charge	>17 hours for RTD/Ω/TC/V/mV measure/source with minimum backlight.
CJC Error (For Thermocouple) Internal Reference Junction)		±± 0.5 °C			>9 hours for mA generation with minimum backlight. (24VDC @12mA)
CJC Selection		Manual/ internal/ external*		Display & Keys	
Temperature Coefficient		≤30 ppm		Display	3.2" TFT LCD, 262K color, graphical, 48.6 mm x 64.8 mm, 240x320 pixels, white LED backlight
Input Impedance		TC/ mV/ V/ frequency/ pulse >1MΩ mA =10 Ω		Keys	9 Membrane keys
Response Time		Input <100ms, output <100ms		Special Features	
Load Impedance		>4.7KΩ for TC/mV/V/pulse/frequency O/P <750Ω for mA O/P		Loop Power Output	24V DC, ±10% (24mA maximum)
Isolation		500VDC between measure section & source/ measure section		HART mA Loop Resistor	250 Ω ± 20%
Data Logging		Logged data is stored in a user defined file in internal memory Periodic logging: 150000 readings max.		Automatic Wire Detection	Automatic detection RTD measure wire connection. (2-wire, 3-wire or 4-wire)
Communication Interface		USB 2.0		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.

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 to 0.01 °C		4 Wire measurement: ±0.2 °C, Simulation*: ±0.8 °C									
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					Compatible RTD Types										
Parameter		Range		Resolution		Accuracy		Pt10 (385)		Pt400 (385)		Ni100 (672)		Cu10 (427)	
V		0 to 30.00 VDC		0.001 V		±0.02% of reading ± 2 count		Pt50 (385)		Pt500 (385)		Ni100 (618)		Cu50 (427)	
mA		0 to 24.000 mA		0.001 mA		±0.02% of reading ± 2 count		Pt100 (385)		Pt1000 (385)		Ni120 (672)		Cu100 (427)	
Thermocouple/mV Measurement/Simulation Resolution & Accuracy@20-30°C					General Specifications										
TC Type		Range		Resolution		Accuracy [^]		Display Mode		Measure: mA/ V/ mV/ mA(2W)/ switch-test / RTD/ TC Source: Resistance/ RTD/ TC					
E		-200.0 to 1000.0 °C		0.1 °C		0.3 °C± 4uV		Supported Units for RTD/ TC Type		°C/ °F/ °K					
J		-200.0 to 1200.0 °C		0.1 °C		0.3 °C± 4uV		RTD Measurement Current		300 uA					
K		-200.0 to 1372.0 °C		0.1 °C		0.3 °C± 4uV		Maximum Resistance Excitation Current (Simulation-Resistance/ RTD mode)		3 mA (0...650 Ω) Iexci 2.0V/ Rsim (650....4000Ω)					
T		-200.0 to 400.0 °C		0.1 °C		0.3 °C± 4uV		SettlingTime (Pulsed Currents RTD Simulation)		>1 ms					
B		450.0 to 1800.0 °C		0.1 °C		0.5 °C± 4uV		CJC Error (For Thermocouple) Internal Reference Junction		≤± 0.5 °C					
R		0.0 to 1750.0 °C		0.1 °C		0.5 °C± 4uV		CJC selection		Manual/ internal/ external(1)					
S		0 to 1750.0 °C		0.1 °C		0.5 °C± 4uV		Max. Input Voltage (EM Terminal)		30 VDC					
N		-200.0 to 1300.0°C		0.1 °C		0.3 °C± 4uV		Temperature Coefficient		≤30 ppm					
mV		-10.000 to 80.000 mV		0.001 mV		±0.02% of reading ± 4uV		Input Impedance		TC/ mV/ V >1MΩ mA: 10 Ω					
		-10.00 to 250.00 mV		0.01mV		±0.02% of reading ± 0.02mV		Response Time		Input <100ms, output <100ms					
Note: Temperature standard ITS-90 [^] Degree equivalent to 4uV against respective readings to be added to above mentioned accuracy for TC input.					Load Impedance					>4.7KΩ for TC/mV					
Power Supply					Display Update Rate					10 readings / sec.					
Battery Type		Rechargeable Li-ion battery pack, 2300mAh 3.7V			Isolation					500VDC between mA/V measure and RTD /Ω /TC/mV					
Charging Time		<5 hours max.			Data logging					Logged data is stored in a user defined file in internal memory Periodic logging: 150000 readings max.					
Charger Supply		100-240 VAC, 50/60 Hz; Output 5V DC@1A			Communication Interface					USB 2.0					
Battery Life on Full Charge		Continuous operation (measure or source) >17 hours Continuous operation (12mA (24V) measure) >9 hours			⁽¹⁾ with RTD sensor at RTD terminal for External CJC										
Battery Status Indication		Battery symbol displayed with % power remaining													

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.

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				Power supply		
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				Charger Supply	100-240 VAC, 50/60 Hz; Output 5V DC@1A	
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		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
General Specifications				Battery Status Indication		Battery symbol displayed with % power remaining
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, √X, X²: 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				
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.

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

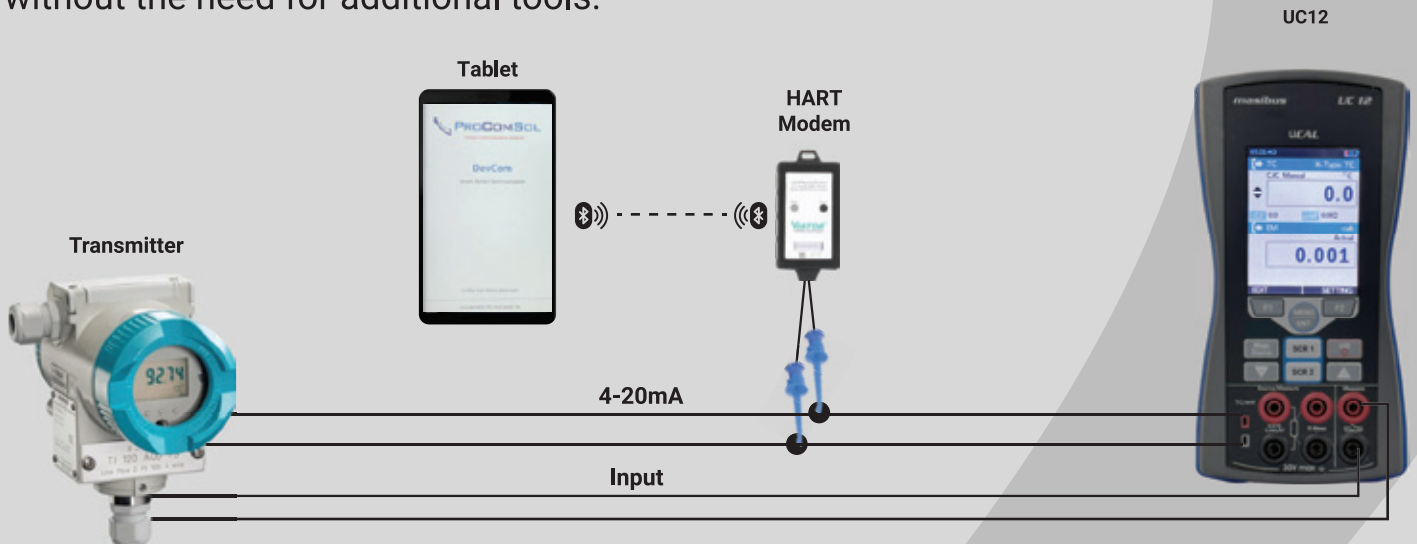
Measurement Range				Power supply	
Parameter	Range	Resolution	Accuracy	Battery Type	Rechargeable Li-ion battery pack, 2300mAh 3.7V
mV	0-250.00 mV	0.01 mV	±0.02% of reading ± 2 counts	Charging Time	<5 hours max.
V	0-30.000 VDC	0.001 V	±0.02% of reading ± 2 counts	Charger Supply	100-240 VAC, 50/60 Hz; Output 5V DC@1A
mA	0-24.000 mA	0.001 mA	±0.02% of reading ± 2 counts	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
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	Battery Status Indication	Battery symbol displayed with % power remaining
mA	0-24.000 mA	0.001 mA	±0.02% of reading ± 2 counts		
General Specifications				Physical	
Display Mode		Measure only or source only		Dimensions (in mm)	161.7 (L) x 82.1 (W) x 39.5 (H)
Max. Input Voltage		30 V DC		Housing Material	ABS Plastic
Temperature Coefficient		30 ppm		Electrical Terminals	Two nos., 2 mm safety sockets
Input Impedance Measure		V, mV >1MΩ mA =10 Ω		Weight	<300 grams
Response Time		Input <100ms Output <100ms		Protection	IP20
Load Impedance		>10 KΩ for mV/V <750 Ω for mA		Environmental	
Display Update Rate		10 readings / sec.		Operating Temperature	0 to 55 °C
Data logging		Logged data is stored in a user defined file in internal memory Periodic logging: 150000 readings max.		Operating Temperature While Charging Batteries	0 to 45 °C
Communication Interface		USB 2.0		Storage Temperature	-20° to 60 °C
		Display and Keys		Relative Humidity	30% to 90% non-condensing
Display		2.4" TFT LCD, 262K Color, Graphical, 42.72 mm x 60.26 mm, 240x320 pixels, White LED backlight		Warm-up Time	15 Minutes
Keys		6 Membrane keys		Accessories	
		Special Features		Calibration Certificate	
Loop Power Output		24V DC, ±10% (24mA maximum)		User Guide	
HART mA Loop Resistor		250 Ω ±20%		1 Set of 2mm to 2mm Banana Cable	
Special Function		Step/Ramp functions: Automatic/Manual, $\sqrt{x}$, x^2 : for measure & source		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 Training 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**

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Kolkata, West Bengal, 700160, India

Chennai

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Melnallathur, Thiruvallur, Chennai,
Tamil Nadu, 602002, India

Aurangabad

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Panchkula

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Bhubaneswar

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