

Product Overview























Cost Effective MQTT Gateway

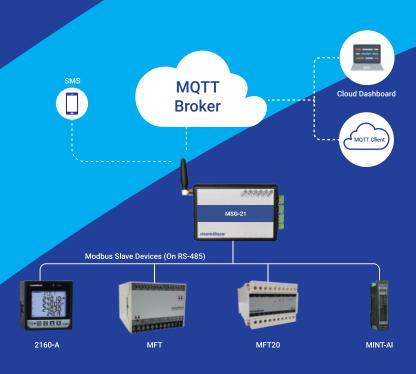
MSG-21 Masibus IIoT Gateway

Features

- 4G Modem (LTE Cat1)
 - Support frequency band: GSM : 900/1800MHz
 - LTE FDD: B1/B3/B5/B7/B8/B20/B28/B31/B72
 - LTE Cat1: 10 Mbps (DL) 5 Mbps (UL)
- Remotely monitoring data on MQTT server
- Retains the data in-case of network failure
- Embedded web server for easy configuration
- Configurable RS-485 baud rate, parity and stop bit



MSG-21



Wireless I/O for Automation

MSC

Masibus Smart Converter

Features

MSC-PS-MS

• Integrates multiple Modbus RTU slaves into single profibus network

MSC-ME-MS

• Supports max upto 64 Modbus RTU slave devices on RS-485

MSC-ME-ZB

• Supports upto 64 Modbus RTU slave devices on RS-485 & ZigBee

MSC-ZB-RS

• Number of ports: 1 RS-485 (Wired) & 1 ZigBee (Wireless)







MSC-ZB-RS







Modbus TCP/IP

Modbus TCP/IP

Masibus Solar Offerings





SBM-S-1225-2025 String Box Monitor (For Solar Industry)

Features

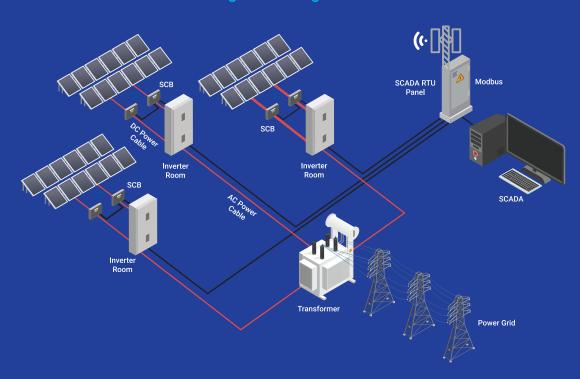
- 8/12/16/20 Analog Input channels for current with built-in shunts
- String voltage input: 0-1500 VDC
- 2 Temperature inputs for RTD sensors & 2 digital inputs
- 1 On-board temperature sensor
- On-board Zigbee module (Optional) for wireless communication
- Self-powered from string power using DC-DC converter

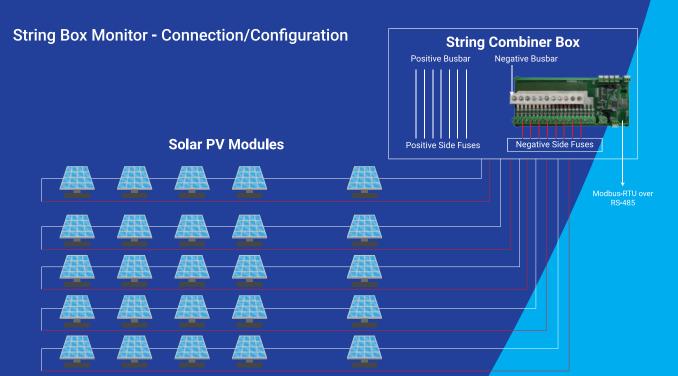


SBM-S-1225



Wireless String Monitoring Box for Solar Plant





Time Synchronization Offerings







MTS300R



MTS200R

MTS300R masTER Redundant GPS Time Server

Features

- 19" 3U Rack mount modular architecture
- Maximum 36 number of timing output can be provided

MTS200R masTER Time-Sync

Features

- 19" 1U Rack mount modular architecture
- Maximum 12 number of timing output can be provided based on the configuration selected
- Remote alarm notification using SNMP v1, v2, v3 and syslog, remote configuration using SSH, web, SNMP, telnet
- Supporting timing protocols are IEEE 1588 PTP (Power and power utility profile), NTP/SNTP, IRIG-B AM and IRIG-B TTL, FDM, 2.048 MHz. frequency O/P, fiber optic O/P, NMEA, proprietary serial O/P, NTP v2/v3/v4 with MD5 authentication with symmetric and auto key management
- · Supporting networking protocols: IPv4, IPv6, UDV, TCP, SNMP, SSH, SCP, HTTP, HTTPS, SYSLOG, telnet
- · Redundant and non- redundant GPS master time synchronization unit with internal comparator and switching module for redundancy

Slave Clock







DDU-TDC

DDU-CL

DDU-HZ

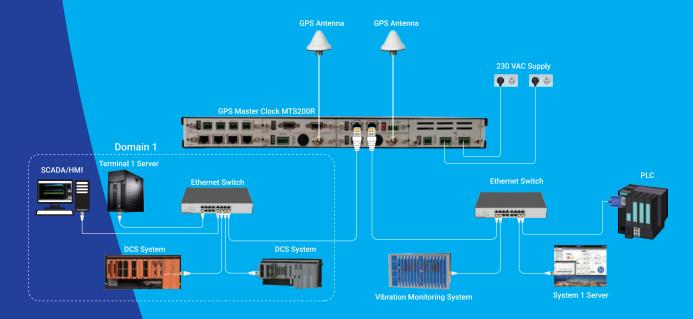


DDU-DY



DDU-TD

Time Synchronization for Process Industry



Time Synchronization Offerings









MC-1-DE

MC-1-DH



MTS200L

MC-1-DE MC-1-DH GPS Time Sync Unit

Features

- GNSS based time server in compact DIN-Rail /panel/wall mount enclosure
- Supporting timing protocols are SNTP/NTP,IRIG-B AM and IRIG-B TTL, NMEA, proprietary serial O/P
- Remote alarm notification, remote configuration using telnet
- 22 satellite parallel tracking

MTS200L masTER Time-Sync

Features

- 19" 1U Rack mount modular architecture
- · Maximum 16 number of timing output can be provided
- · Power supply redundancy can be provided
- Supporting timing protocols are IEEE 1588 PTP (Power and power utility profile), SNTP/ NTP, IRIG-B AM and IRIG-B TTL, FDM, 2.048 MHz.
 frequency O/P, fiber optic O/P, NMEA, proprietary serial O/P
- Supporting networking protocols: IPv4, UDP, SNMP, telnet
- Remote alarm notification using SNMP, remote configuration using SNMP v1, v2, telnet



MC-1-U

MC-1-U GPS Master Clock

Features

- 19" 1U Rack mount architecture
- Maximum 10 number of timing output can be provided
- Supporting timing protocols are SNTP/NTP, IRIG-B AM and IRIG-B TTL, NMEA, proprietary serial O/P
- Supporting networking protocols: IPv4, UDP, SNMP, telnet
- Remote alarm notification using SNMP, remote configuration using SNMP v1, v2, telnet



MC-2





DDU-24

DDU-26





DDU-44

DDU-46

GPS Wireless Master Clock- MC-2

Features

- Receives automatic time from network of GPS satellites
- Transmits the time to clocks through RF or serial
- Synchronization of server time system through RS-232/RS-485

Wireless Slave Clock- DDU-24/ 26

Features

- Each clock can act as repeater to extent network range
- Works in stand-alone mode if network fails
- DDU-24 / DDU-26 is also available in Ex-proof enclosure for gas group IIA and IIB (IP65)

Wireless Slave Clock- DDU-44/46

- Use of unlimited slave clocks within transmitter's range
- Optional TP (LAN Interface) with IEEE 802.3af compliant PoE
- Retains time during loss of power/time code







TT79

Isolated & Programmable Temperature Transmitters

Features

- Universal input (RTD, Thermocouple, Ohm, mV)
- Full three port isolation
- Linearized output
- Highly accurate
- Fully programmable for input type & range







TT7S11S

TT7S10

TT7S10-H

TT7S00-HR 2-Wire Transmitter Pt-100 input

Features

- Multi-range design
- Output linear to temperature
- Analog linearized for 0.1% linearity
- · Sized for DIN B heads and bigger
- Sensor break selection for upscale or downscale



TT7S00-HR

TPT-20 Tap Position Transmitter

Features

- Microcontroller based
- Compact DIN-Rail mounting
- 4 digit red digital display for tap position
- Easy configuration using keys & display
- Programmable tap number upto 100



TPT-20



TT7S10-D



TT7S10-XP (Single Compartment)



TT7S10-XP (Dual Compartment)

TT7S10-D/TT7S10-XP Loop Powered Temperature Transmitter with Display

- Universal input (RTD, Thermocouple, Ohm, mV)
- Available in below options
 - TT7S10-D: DIN-Rail mount with 0.3", 4 digit LED display
 - TT7S10-XP: Wall or 2" pipe mount Ex-proof transmitter with touchsense keys
 - 0.56", 4 digit LED display in single compartment
 - 0.39", 4 digit LED display in dual compartment

- 1.5 KV RMS isolation between input & output
- Linearized output
- · Highly accurate
- Fully programmable for input type & range
- Digital filter
- Easy configuration using keys and display

Transmitter Offerings





DPT7S10

DPT7S10 Differential Pressure Transmitter

Features

- Wide loop supply voltage range from 10VDC to 36VDC
- Custom built LCD 4-digit display
- Configurable unit measurement in mmWC / Pa
- Available in compact and lightweight design for easy and simple wall mount installation
- Configurable by front keypad (Available in device with display)



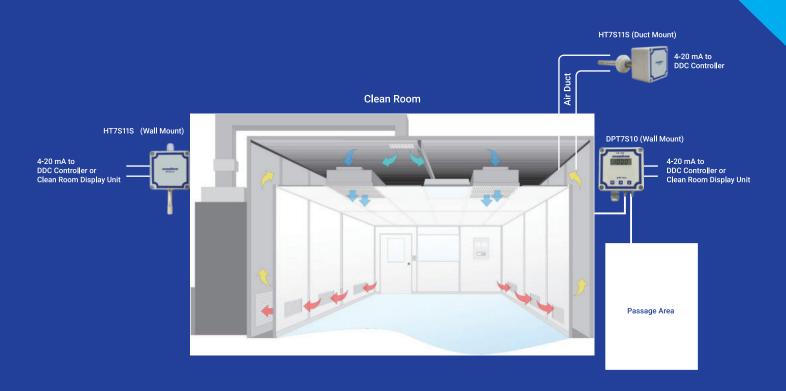
HT7S11S Humidity and Temperature Transmitter

Features

- Wide loop supply voltage range from 10VDC to 36VDC
- Custom built LCD display
- Configurable temperature unit measurement in celsius/ fahrenheit/kelvin
- Available in wall and duct mount
- Configurable by front keypad (Available in device with display)

HT7S11S

T/RH Transmitter and DP Transmitter for Clean Room Application



Active Field Interface Modules







MAS-AI-U-08-D 8 Channel Linearized RTD/TC Input

Features

- Input (Field side): For linear type: 0/4-20 mA, 0/1-5VDC, 0-10VDC
- For: RTD/TC: Input: RTD Pt100 and thermocouple (J,K,T,E,R,S,N & B)
- Each channel is configurable for input type
- Output: (PLC side): 0/4-20 mA, 0/1-5VDC, 0-10VDC
- 3-Way isolation for analog signals/channel to channel isolation 1.5 KV AC +/- 0.1% accuracy across span
- Zero and span calibration possible for each channel through the mini USB port
- LED indication for signal over/under
- Dimensions in mm: 225(L) x 90(W) x 90(D)

Reduce PLC Cost with Signal Conditioner for Temperature Monitoring Application









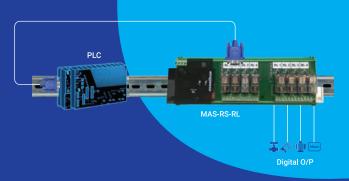
8 Channel Modbus Relay FIM

MAS-RS-RL Modbus Relay Field Interface Module 4/8 Channel Relay FIM

Features

Field interface for PLC/DCS/SCADA system

Extending Digital Output to PLC System

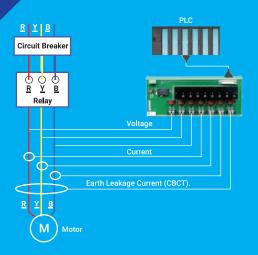


MAS-CBCT-07-D MCC/ VFD Feeder Monitoring FIM

Features

- Multi-channel configurations
- Input (Field side): Current: 0-5A AC, 0-1A AC, 0-300mA AC, 0 10mA
- Voltage: 0-150VAC, 0-300VAC, 0-450VAC
- Output (PLC Side): 4-20 mA, 0/1-5VDC, 0-10VDC
- 3-Way isolation for analog signals/channel to channel isolation
- Re-Transmission to interface with DAS/SCADA/PLC
- Dimensions in mm: 275(W) x 126(H) X 90(D) mm

Line Voltage/Current, Earth Leakage Current Measurement & Protection for MCC/ VFD Feeders

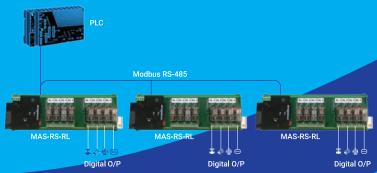




8/16 Relay Output

MAS-DO-RL-08-D Field Interface Module

- Coil voltage: 5V DC/12V DC/24V DC/48V DC
- Free wheeling diode across the relay coil for protection
- Jumpers for selection between positive/negative looping



Passive Field Interface Modules













Features

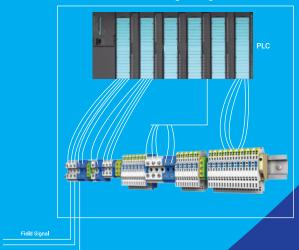
- No. of pins: 15/25/37/50
- · Connection: One to One
- Module side termination: D- sub male/female connector
- Field side termination: Screw type/push-in type
- · Compact in design
- Reduce installation and assembly time
- Mounting: Universal DIN-Rail- 35 mm

Features

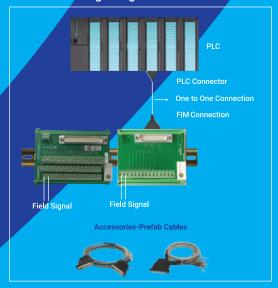
- No. of pins: 16/20/40/50
- · Connection: One to One
- Module side termination: FRC male/female connector
- Field side termination: Screw type/push-in type
- · Compact in design
- Reduce installation and assembly time
- Mounting: Universal DIN-Rail- 35 mm

Effective Altenative to End to End Cabling

Conventional Wiring using Field TBs



Module Wiring using Masibus Passive FIMs



Special FIMs



MAS-AI-P-16-1L-D 16 Channel Analog Input FIM with PCB Mounted Resettable Fuse Protection



MAS-DR-08-D
Diode Oring FIM with Incoming Redundant
24VDC Power Supply Feeder



MAS-DO-P-16-1L-D

16 Channel Digital Output FIM with PCB

Mounted Resettable Fuse Protection



MAS-PD-08-D-1 MAS-PD-08-D-4
8 Channel Power Distribution Board for

24VDC@ 100mA/ 4A Load Current



MAS-DI-P-16-1L-D 16 Channel Digital Input FIM with PCB Mounted Resettable Fuse Protection



Data Acquisition Offerings



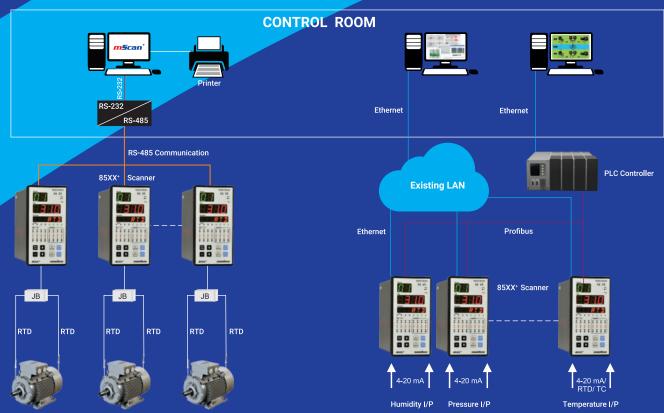


85XX⁺ 24-Channel Scanner/ DAQ Module

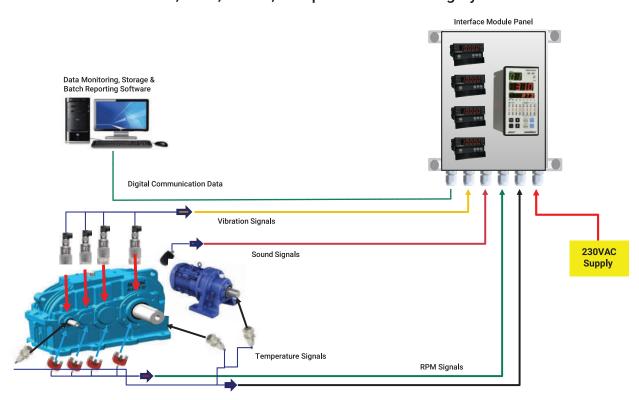
Features

- 8/16/24 channel analog input
- · Compact and rugged
- Alpha-numeric display for programmable tag no. / Engg unit
- EMI/EMC type test qualified & CE marked
- Universal analog input module
- 16 Channel digital input module (Optional)





Gearbox Vibration, RPM, Sound, Temperature Monitoring System



Data Acquisition Offerings









8204 4-Channel Scanner

8208 8-Channel Scanner

Features

- · Universal input for each analog input
- · Compact 1/4 (8208) 1/8 (8204) DIN mounting
- · Front panel programming
- Fast sampling rate with instantaneous relay action
- · Four relays for alarm/trip



8040 Data Logger

Features

- 16-128 channels configuration
- · Scans 128 channels in 3 seconds
- Two user dedicated serial communication ports + one OT/HMI port
- Ethernet port/USB port (Optional)
- 2 x 16 character LCD operator display terminal

DI-16/DO-16/AI-08/AO-08/MINT-CP MINT Intelligent I/Os & Communication Processor

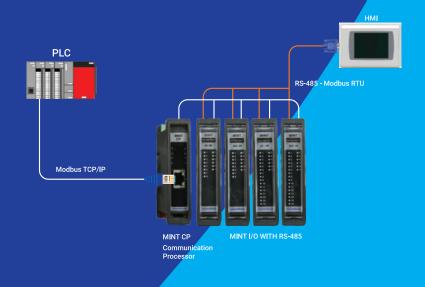
Features

- High performance IO system which can be connected with any brand of PLC / DCS / DAQ in centralized as well as in remote IO configuration
- 15 nos. of IO cards can be clubbed together in a row with one communication processor & same can be repeated for more rows
- Channel density for digital input & output is 16 channel & for analog input & output is for 8 channel. All card can accept universal input
- Can be integrated with existing plant network over Modbus RTU / Modbus TCP/IP protocol
- Smart IOs to capture field sensors information to IIoT Gateway, which can further be pushed to cloud





Mint CP with I/O on Modbus TCP/IP to PLC & Mint IO's to HMI on RS-485-Modbus



Vibration Monitoring Offerings







VMS4SE Multi-Channel Vibration Monitor

Features

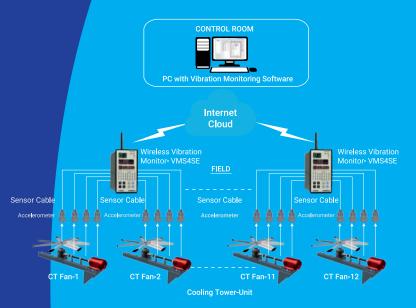
- 4/8/12 channel vibration input module
- 8 Channel analog output
- Optional 8 channel universal analog input module
- 3 I/P & 2 O/P slots capacity
- Compact and rugged panel mount
- Extruded aluminum chassis with IP-55 front fascia

VT7S12E Dual Channel Vibration Transmitter

Features

- · Compact DIN-Rail mounting
- 4 Digit LED display for value & 1 digit LED display for channel no.
- Dual channel (Optional single channel)
- Micro controller based
- Same model field configurable for acceleration, velocity or displacement range

Cloud Based Condition Monitoring And Protection





Vibration Monitoring of AHU



- Relay for alarm/trip
 Re-transmission O/P
 RS-485 communication

VT7S12E **Vibration Transmitter**

VMS-R **Vibration Monitoring Rack**

Features

- Compatible with most sensors and probes
- Accepts proximity input
- Programmable proximity input range
- Upto 10 slots for input/output
- Inbuilt flash memory for datalogging

VSW-160 Vibration Switch

- 3 in 1 (Switch + Indicator + Transmitter)
- Remote sensor or inbuilt sensor option
- Bright 3½ digit, 7 segment LED display
- Touch sense keys for set point display & manual reset
- Area classification: Zone 1 & 2, gas groups: IIA/ IIB & IIC

Signal Conditioner Offerings







9000C Signal Isolator

Features

- Available in Aux Powered (AP) and Loop Powered (LP) options
- Slim DIN-Rail mount design of 12.5mm for single output and 17.5mm for dual output
- Rugged & accurate 4 wire and 2 wire Isolator
- Up to 2 outputs with short circuit protection
- CE certified model option
- HART pass through model



9000U⁺ Signal Isolator

Features

- Rugged & accurate 4 wire isolator
- Switch option for 0/4-20mA, 0/1-5V and 0-10V I/O selec
- Extended universal power supply range: 20V to 265V DC
- 2.0KVAC three port isolation
- Wide zero & span adjustment limits
- · Front calibration facility via multiturn trimpot



9000LE Signal Isolator

Features

- BEST IN CLASS ACCURACY, < 0.1% of full span
- HART pass-through available with 2-wire transmitter supply configuration
- Less power consumption < 1.3W per channel
- High 2KV three-port isolation
- 2 Wire & 4 wire transmitter configuration option available



9000E Signal Isolator



9000L Signal Isolator

Features

- Compact DIN-Rail mount design of 35mm for single and dual output
- 1.5 KV AC three port isolation
- Up to 2 outputs with short circuit protection
- High CMRR and NMRR
- High output load driving capability

Best Fit for VFD Application





Smart Data Monitoring and Logging



HT16u Humidity/Temperature Data Logger

Features

- Compact RH/T smart logger with integral LCD display
- Max. / Min. readings with reset
- Logs up to 4,00,000 records with time stamp
- High / low alarms status
- · Selection of temperature unit measurement in celsius or fahrenheit

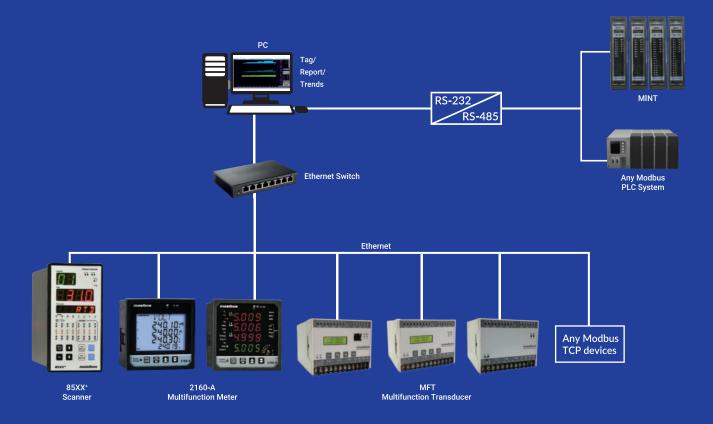




Smart Software Scalable Monitoring Archiving & Reporting Tool

- Online monitoring, data logging and reporting
- Auto discovery of Masibus devices
- Audit trials and signature manifestations
- Real time trend/historic trend display

- Supports multiple third party Modbus (RS-485/ TCP-IP) devices
- Auto tag generation of Masibus devices
- Multiple pre-built report options
- Temper proof data management



Power Product Offerings



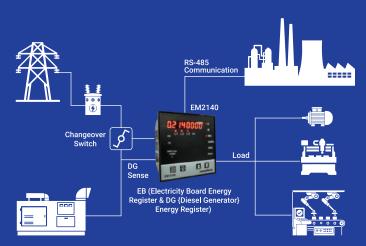


2160-A Multifunction Power & Energy Meter

Features

- Available in accuracy class 1.0 as per IS 13779 / IEC 62053-21 and class 0.5s or 0.2s as per IS 14697 / IEC 62053-22
- True RMS measurement
- Field programmable CT/PT ratio & secondary value
- · Four quadrant measurement
- RS-485 Modbus- RTU communication protocol
- · Maximum demand and THD measurement

Dual Source Energy Measurement









2160-A (LED)

EM2140 Dual Source Energy Meter

Features

- Available in accuracy class 1.0 as per IS 13779 / IEC 62053-21
- · True RMS measurement
- Field programmable CT/PT ratio
- Available EB/DG dual source energy measurement
- Independent programmable relay output for alarm trip
- Display parameters selection in run mode
- Phase healthy & reversal indication



EM 2140

MFT20 Multifunction Transducer

Features

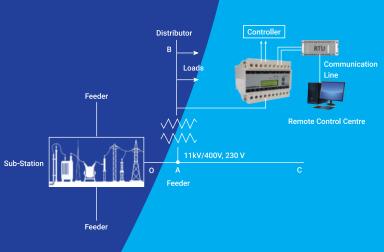
- Available in accuracy class 0.5 or 0.2 as per IEC 60688 standard
- Field programmable CT/PT ratio
- True RMS, microcontroller based transducer
- 28 Electrical parameters can be mapped to analog O/P
- Field programmable up to two analog output
- · GUI based site configuration software



MFT20



MFT



MFT Multifunction Transducer

- Available in accuracy class 0.5 or 0.2 as per IEC 60688 standard
- Field programmable CT/PT ratio
- True RMS, microcontroller based transducer
- 30 Electrical parameters can be mapped to analog O/P
- Four analog & two digital outputs
- · Long input range, site-configurable inputs, outputs and measurands

Calibrator Offerings







UC12 Universal Calibrator

Features

- Compact, handheld, user friendly menu
- Available with EMI/EMC compliance
- Easy to read color graphical TFT LCD display
- Rechargeable lithium ion battery with enhanced power control for prolonged battery life
- Measure: mA/ V/ mV/ mA (24V)/ switch-test / RTD/ TC/ frequency/ pulse



LC 12 Loop Calibrator

Features

- · Easy to read color graphical TFT LCD display
- Available with EMI/EMC compliance
- Rechargeable lithium ion battery with enhanced power control for prolonged battery life
- Simultaneously measure and source: mA, mV and V with dual readings on display
- 24 VDC loop power supply to power transmitters and loops



TC12⁺ Temperature Calibrator

Features

- · Compact, handheld, user friendly menu
- Easy to read color graphical TFT LCD display
- Rechargeable lithium ion battery with enhanced power control for prolonged battery life
- Measure: mA/ V/ mV/ mA (24V)/ switch-test / RTD/ TC
- Source: resistance/ RTD/ TC



LC 11 Loop Calibrator

- Easy to read color graphical TFT LCD display
- Rechargeable lithium ion battery with enhanced power control for prolonged battery life
- Measure or source: mA, mV and V readings
- 24 VDC loop power supply to power transmitters and loops
- Step/ramp functions with auto/man selection

m

Controller Offerings



TC596/ TC548/ TC548E ON/OFF - PID Temperature Controller

Features

- Thermocouple/RTD input
- Average energy demand parameter for process diagnosis
- 10A relay for ON/OFF or PID controlling
- SV display in TC548E: 0.31" 7-segment green LED 4-digit
- Three years calibration with auto zero and auto span

5040/5040-XP Single Loop Controller

Features

- Universal input selection
- Universal output including valve positioner output
- Auto-Tune PID with ratio control
- Fast loop response time of 250m sec.
- 4 Relay and 4 digital outputs for control, alarms and events

5002U-P Digital Process Controller

Features

- · Unique one shot calibration method
- Premium ON/OFF or proportional controller
- Transmitter power supply
- Fast loop response time of 250m sec.
- Up to 4 independent programmable relay output

TC5396 Auto-Tune PID Controller

- · Advanced Auto-Tune PID algorithm
- Universal input (TC, RTD, Volts, mA)
- 15 Alarm configurations
- RS-485 Modbus communication (Optional)
- Variety of re-transmission output (Optional)







5040

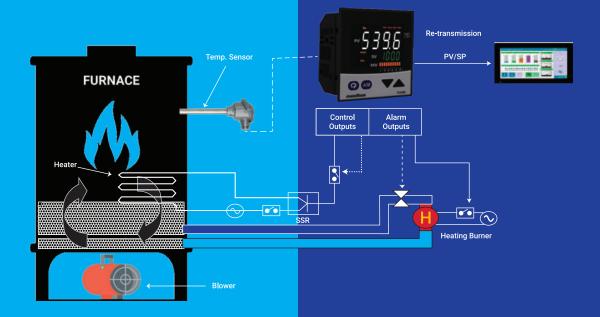
5040-XP

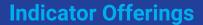


5002U-P



TC5396









21CFR Part11

CDU Clean Room Display Unit

Features

- RH, temperature and DP measurement
- Internal sensor option (Ease of installation)
- · Remote sensor option for RH+T measurement
- Available in LED and touchscreen TFT LCD display options
- 3 Programmable alarms with visual annunciation
- Data backfilling via DNP 3.0 avoiding data loss





CDU (LED) CDU (LCD)

HT16EW Serial To Ethernet Serial To Ethernet Serial To Ethernet Serial To Ethernet Serial To Ethernet

Environment Monitoring System

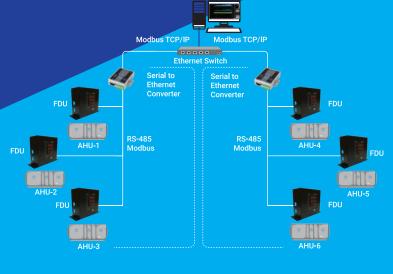
CDU-1

CDU-15

FDU Filter Display Unit (For AHU & BMS Systems)

Features

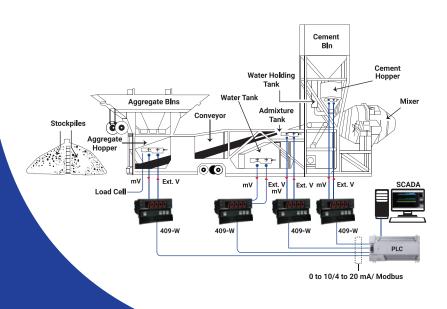
- Micro-controller based differential pressure indicator cum transmitter up to 3 filters
- · Software programmable filter ranges
- 3 Programmable Hi/Lo alarms with audio/visual annunciation
- RS-485 Modbus RTU communication for connectivity with BMS/ PLC/ SCADA etc.
- Built in AHU OFF/TRIP status LED indications via digital input





FDU

Dynamic Weighing Application



409-W Load Cell Controller/ Indicator SGT-18 Strain Gauge Transmitter (Load Cell)

Features

- · Selectable load cell input ranges
- 5 Digit 0.56" LED display
- Local cell excitation voltage selectable from 5 to 15V DC (Factory set)
- · Tare adjustment through keypad/DI
- User selectable gross and net values
- RS-485 interface (Optional) for connecting PLC/DCS





SGT-18 409-W







PHI-22-XP Flame-Proof pH Indicator

Features

- 5 Point calibration
- Slope/offset adjustment
- Built-in-diagnostics
- User selectable: Auto/manual temperature compensation
- Electrode performance indicator

1008S Flow Indicator-Totalizer

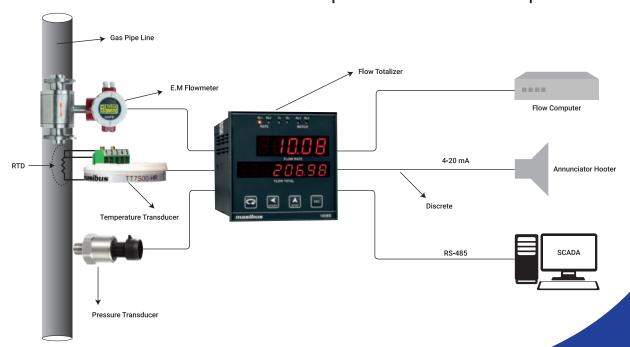
Features

- Features & performance like flow computer
- High accuracy, PT compensation, Fast sampling and totalize with precision even fast changing flow rates.
- 4 Relay output
- 2 Relay for flow rate alarm & 2 relay for pre/final batch total
- Batch start/stop, batch/integration total zero



1008S

Mass Flow Measurement With Temperature And Pressure Compensation





Masibus Automation And Instrumentation 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

Sharjah

Address: A2-102, SAIF Zone, PO Box

120145 Sharjah, UAE

E-mail: sharjahall@masibus.com

Ph. No.: +971 65574650

Bengaluru

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

Hyderabad

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

Pune

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

Chennai

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

Kolkata

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

Delhi

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

Mumbai

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

E-mail: sales@masibus.com Website: www.masibus.com Sales Service: TOLL FREE (India) **1-800-233-2273**

Sonepar India Pvt. Ltd.

Gurgaon

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

Aurangabad

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

Kolkata

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

Panchkula

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

Chennai

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

Bhubaneshwar

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

E-mail: communications@soneparindia.com Website: www.soneparindia.com