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String Monitoring

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STRING MONITORING

CURRENT MEASUREMENT	
Maximum Channels	4 Multiple, Maximum 32 Channels
Input Current Range	-20A~+20A & -30A~+30A & -60A~+60A
Rated Current	-10A~+10A
Zero Drift	±0.1A
Temperature Drift	±0.005A/
Accuracy	1%FS
CURRENT MEASUREMENT	
Input Voltage Range	400~+1700V
Accuracy	Class 1, 1%
Resolution	1V
EMPERATURE MEASUREMEN	
Number of Temperature Sensor	2
Sensor Type	NTC
Measurement Range	-40~+125
Accuracy	±2
Resolution	0.1
GITAL STATUS MONITORING	
Number of Digital Status	4
Type	Dry Contact
Input Voltage	DC5V
LOCAL SCREENING	
Display	LCD, Histogram Display
Working Status Instructions	2 LEDs, Indicating Power & Communication Status
LOCAL OPERATION	
Operating Content	Operating Status Display and Parameter Setting
Local Operation Key	4nos
RS-485 COMMUNICATION	
Communication Protocol	Modbus-RTU
Communication Baud Rate	2400/4800/9600/19200/38400 bps
Parity	8N1, 8O1, 8E1
MAIN UNIT POWER SUPPLY PARAMETERS	
Input Voltage	400~1700VDC
Maximum Input Current	0.1A
ENVIRONMENT	
Operating Temperature	-40 +85
Storage Temperature	-40 +85
Operating Humidity	095%
EMC	
Surge Immunity	GB/T 17626.5-2008 class 4, common mode 4KV, dierence mode 2KV
Electrical Fast Transient (EFT) Disturbance	GB/T 17626.4-2008 class 4, common mode 4KV, dierence mode 2KV
Electrostatic Discharge Test Immunity	GB/T 17626.2-2006 class 3 , contact discharge 8KV, air discharge 15KV
Electromagnetic Radiation Immunity	GB7251.1-2005, GB/T 17626.3-2006, 10V/m
Power Frequency Magnetic Field Immunity	GB/T 17626.8-2006 class 3

Combiner Box Monitoring System (3rd-Generation)

Brief Introduction: The Combiner Box Monitoring System is used to monitor the working status of every PV string and send the status data to the monitor center of the PV power plant through eld bus or industrial wireless. Installation: Directly integrated in the combiner box. Arc-fault detection is an optional function which can be added to the system. Major Advantage of Twomaster Combiner Box Monitoring System Comprehensive functions: measuring real-time current, voltage, and temperature. Monitoring the status of anti-thunder device, shunt tripping device, and etc. Sending information through eld bus or industrial wireless. Match up with your app for real-time monitoring.

User-friendly surface: LCD screen; histogram display of each module enables direct observation

Easy installation:

The major control box and Hall sensors are installed onto the 35mm-width rail, which is an essential part of combiner box

Highest EMC level

No need for external power supply: acquire electricity directly from DC bus Improvement over the 2nd edition

The 3rd edition Supports:

Automatic address assignment, data freezing, shutting down the shunt tripping device without providing external power, support LORA communication

STRING MONITORING

Product code

100-1000VDC ; 150-1500VDC ; 170-1700VDC

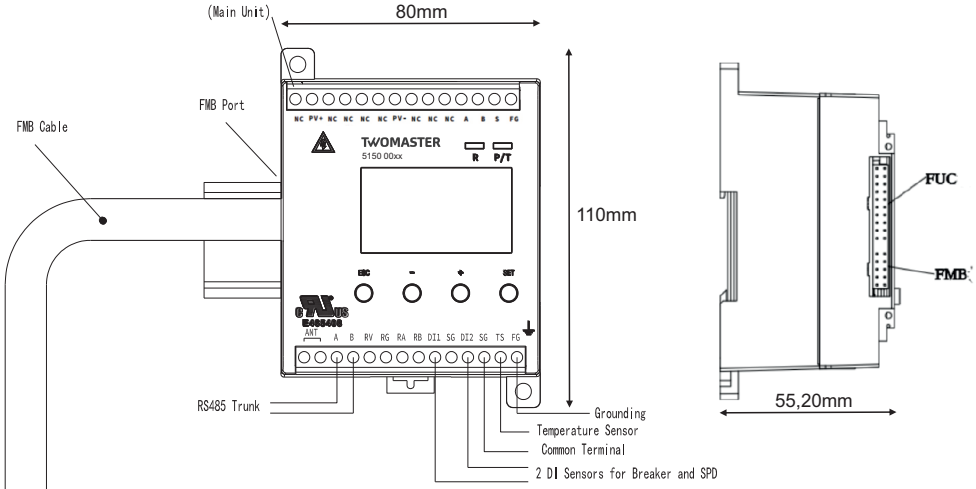
0-20A ; 1-30A
2-40A ; 3-60A

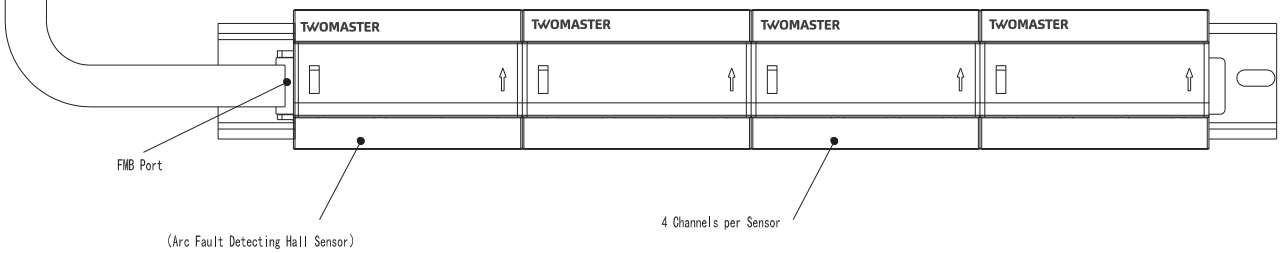
5	1	5	0	0	0	2	4

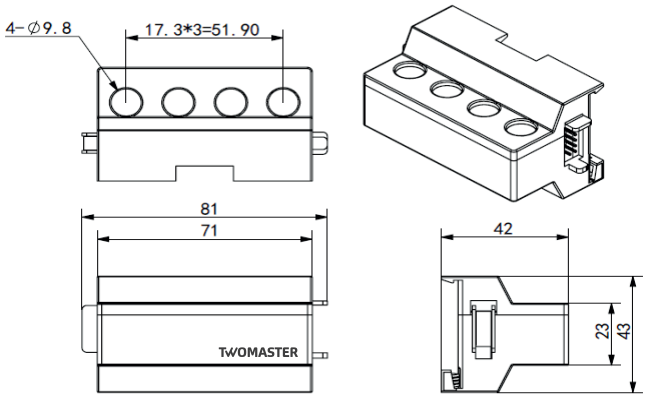
5-PV

0-Monitoring
1-Arc Fault

04-4 string ; 08-8 string
12-12 string ; 16-16 string
20-20 string ; 24-24 string
32-32 string







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