MSC-D MULTIFUNCTION SMART CALIBRATOR

GENERAL DATA:

Power supply from the network	From 100-240 Vac network via standard USB battery charger
Battery power supply	3400 mAh LiPo battery; 4 hours' autonomy (minimum @ max load)
Precision	0.03% basic, 0.04% for current
Operating temperature	0..35°C
Storage temperature	-20..50°C (not under charge), 0..40°C during charging
Humidity	30..90 % non condensing
Insulation	Intrinsically insulated battery powered instrument No isolation of the USB port
Connections	1 Fast Ethernet 100 Tx port; Integrated WiFi 2.4 GHz (802.11 b/g/n, Up to 150 Mbps)
Protection rating	IP20
Overvoltage protection	240 Vac max without permanent damage
Rejection	50/60 Hz
Sampling frequency	10 Hz
Supplied	Connecting cables (4), battery charger, USB cable
Calibration report	On request
Standards	EN61326-1; EN61010-1

MEASUREMENT FUNCTIONS

Current	0.1 ÷ 24 mA active and passive;
Voltage (V)	0 ÷ 26 V
Voltage (mV)	-10 mV ÷ +90 mV
Thermocouple	Type J, K ,T, E, N, R, S, B, L
Temperature resistances (2, 3, 4 wires)	Pt100, Pt500, Pt1000, Cu50, Cu100, Ni100, Ni120
Load cell	350 Ohm; -0.2 ÷ +3 mV/V
Pulse	Max count 1000 Hz
Frequency	0.1 ÷ 1000 Hz
Measurement precision	0.03% basic, 0.04% for current

GENERATION FUNCTIONS

Current	0.1 ÷ 24 mA active and passive;
Voltage (V)	0 ÷ 26 V
Voltage (mV)	-10 mV ÷ +90 mV
Thermocouple	Type J, K ,T, E, N, R, S, B, L
Temperature resistances (2 wires)	Pt100, Pt500, Pt1000, Cu50, Cu100, Ni100, Ni120
Load cell	350 Ohm; -0.2 ÷ +3 mV/V
Pulse	min 0.5 ms (1 ÷ 24V) settable number of pulses
Frequency	0.1 ÷ 1000 Hz
Generation precision	0.03% basic, 0.04% for current

LAYOUT:



Weight: 395 g

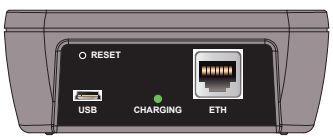
RAMP FUNCTIONS

Signal	Current/Voltage/TC/RTD/Load cell
Functions	Single or loop
Type	Maximum 9 segments, ramp resolution 100 ms, minimum ramp 1 second

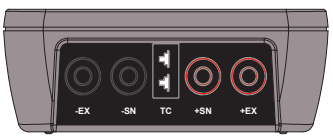
DATALOGGER

Datalogger	Yes
Sampling time	>500 ms

INTERFACE:



FRONT



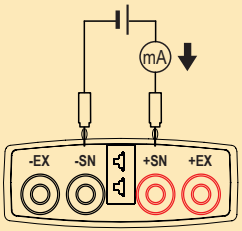
REAR

DOCUMENTATION

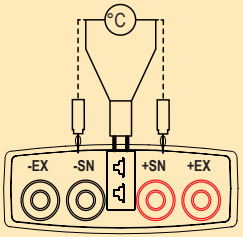


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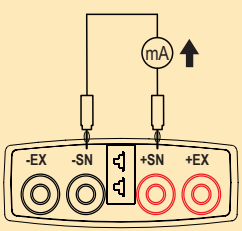
PASSIVE CURRENT GENERATOR



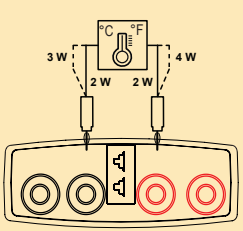
THERMOCOUPLE SIMULATOR



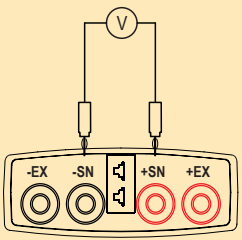
ACTIVE CURRENT GENERATOR



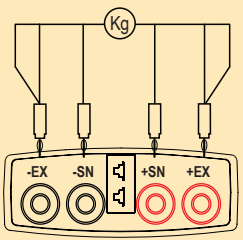
RESISTANCE TEMPERATURE SIMULATOR



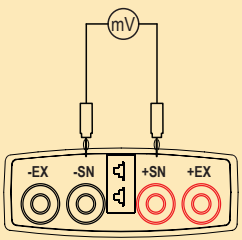
HiRange VOLTAGE GENERATOR



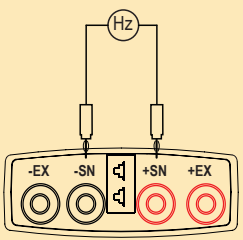
LOAD CELL SIMULATOR



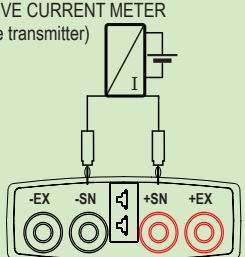
LowRange VOLTAGE GENERATOR



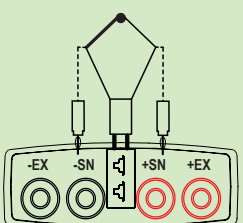
FREQUENCY/PULSE GENERATOR



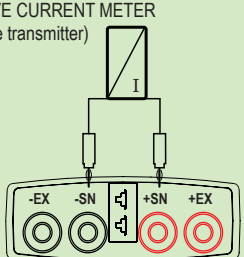
PASSIVE CURRENT METER
(4-wire transmitter)



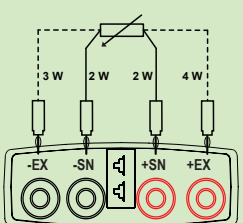
THERMOCOUPLE TEMPERATURE METER



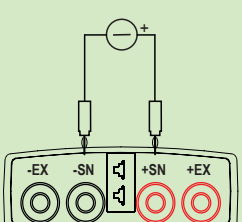
ACTIVE CURRENT METER
(2-wire transmitter)



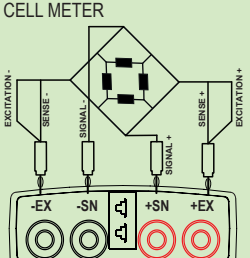
RESISTANCE TEMPERATURE METER



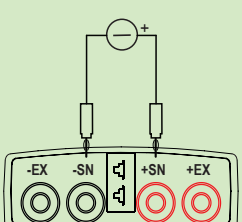
HiRange VOLTAGE METER



LOAD CELL METER



LowRange VOLTAGE METER



FREQUENCY/PULSE METER

