NEW T-ZACCS 3

Pocket Data Logger for Strain Measurement MM-014

Small and light-weight instrument for simple and accurate strain measurement

The MM-014 is a small and light-weight instrument that enables strain measurement by easy operation. Our unique measurement method is employed for highly accurate and stable measurement.

Owing to the adoption of reflective color LCD, excellent visibility and long-time operation with low power consumption are realized. Stable automatic measurement is possible for a long time by the built-in sleep function with high accuracy and low power consumption. Intuitive operation is performed using the function keys which are linked with icons in the screen. With the connection of a sensor, its measured value is confirmed in real time. The measured values are stored in a SD card for easy and smooth data acquisition.

Features

- Owing to our unique measurement method, power line noise is eliminated and stable measurement is realized
- Reflective color LCD that is clearly visible even outdoors under a bright sky (display in Japanese or English switchable)
- Long-time operation by battery (continuous operation for 8 hours)
- Automatic measurement function provided (measurement of 2800 times possible at intervals of 1 hour using sleep function)
- Batch setting of coefficient, unit, decimal point and sensor type using "Sensor ID"
- Accepts TEDS (Transducer Electronic Data Sheet) sensor
- Data are securely held by recording them into the built-in data memory
- Easy data acquisition using SD card

Easy operation and small size held in both hands

Easy and smooth data acquisition using SD card

Tokyo Measuring Instruments Lab.

External dimensions

Specifications

Strain measurement	
Number of measuring point	1 point
Bridge excitation	DC 1V
Applicable transducer	Strain gauge type transducer (full bridge)
Applicable gauge resistance	120 ~ 1000 Ω
Measuring range	$\pm 30000 \times 10^{-6}$ strain
Resolution	1×10^{-6} strain
Initial value memory range	$\pm 16000 \times 10^{-6}$ strain
Input	Terminal block / Connector (EPRC07)

Function			
Measurement mode	Initial, Direct, Measure		
Program setting	Coefficient	$\pm(0.0001 \sim 99999)$	
	Unit	40 kinds including µε, mm, N, Pa	
	Decimal point	Display after decimal point 0 ~ 5 digit Possible to set arbitrarily	
	Offset	Possible to write arbitrarily	
Sensor ID	Sensor ID	Function	Reading and setting sensor ID Writing to sensor ID
	TEDS	Standard	Conforms to IEEE1451.4 Class 2 (Template No. 33)
		Function	Reading and setting sensor information
Auto power	Automatically turns off the power if neither key operation nor command through interface is accepted for the specified time (ON/OFF setting of auto power-OFF function possible)		

Interval timer	
Function	Measurement at set intervals
Measurement interval	1, 2, 5, 10, 15, 20, 30 minute 1, 2, 3, 4, 6, 12, 24 hour (Possible to specify measurement start time)
Sleep function	Automatically turns OFF the power from scanning end to scanning start

Clock	
Setting	Year, Month, Day, Hour, Minute, Second

Display / Operation	
Display	2.7 inch TFT color liquid crystal display
Resolution	400 × 240 dot
Point defect	10 dots or less (excluding aging degradation)
Operation	Function key 1/2/3, UP/DOWN key, ENTRY key, POWER key

Recording			
Internal memory	Function	Measured data recording Setting file recording/reading	
	Capacity	10000 data at maximum	
	Recording method	Interval timer, ENTRY key (manual)	
SD card	Function	Measured data recording Setting file recording/reading	
	Physical format	FAT16/32	
	Recording format	CSV format	
	Capacity	512 Mbyte (specified by our company)	

Interface	
RS-232C	Conforms to RS-232C (Various settings, measurement, data acquisition)

Battery	
Built-in battery	Lithium-ion battery
Battery capacity	1900 mAh
Continuous operating time	Approx. 8 hours (Condition Temperature: 23°C±5°C Measurement: Monitoring (350Ω bridge))
Charging time	Approx. 3 hours (at standby status)

External power supply	
Power supply	Exclusive USB AC adaptor AC 100 ~ 240 V 50/60 Hz
Connecting terminal	USB Type-C
Current consumption	1.5A Max. (DC 5V)

Environment	
Operating environment	0 ~ +50°C 85%RH or less (No condensation)
Charging environment	0 ~ +40°C 85%RH or less (No condensation)

Others	
External dimensions	136(W) × 32(H) × 71(D) mm (except projecting parts)
Weight	Approx. 300 g
Standard accessories	Operation manua ------------------------------------1 copy NDIS conversion cable (CR-8140) --------------------1 pc. Terminal block for full bridge--------------------------1 pc. Exclusive USB AC adaptor (CR-1970) -----------------1 pc.

Option	
SD card (512 MB)	RS-232C cable (CR-5532)
External printer (Applicable Type: DPU-S245)	Printer cable (CR-4511)

Information in this document is subjected to change without notice. Information in this document is as of September, 2019.