KENKUL MD700 Multiplex Data-logger

KENKUL MD700 Data-logger is typically used for measurement and data logger, used in a broad range of measurement and control functions. Rugged enough for extreme conditions and reliable enough for remote environments, it is also robust enough for complex configuration; it will be a powerful core component for your data-acquisition system.

Application measurement

- Water level
- Rains fall
- PM2.5 dust
- Temperature
- Tilt sensing
- Crack or 3D displacement
- Load cell for anchor system

Feature

- Low cost and tiny size
- Multiple type sensor input
- A/D average function
- Up to 50000 Array data storage capacity
- Power source battery level monitoring
- RTC (Real Time Clock)
- Digit Input for ODM sensor

Program setting and function

- ID setting
- Date and clock setting
- A/D read working timer setting
- Analog sensor readout average setting
- Switch power setting
- Switch power delay timer setting
- RS232/485 baud rate setting
- Data logging timer setting
- Storage data logger data mark
- Read real time data
- Read record mark data
- Record data read memory (for data loss)

Specification

Analog sensor Input

Number of channels	3 differential channels
Input ranges	± 5 V
ADC resolution	0.0001 VDC
ADC accuracy	16 Bit

Strain gauge sensor Input

Number of channels	1 channel full bridge strain gauge (350 Ohm)
Input ranges	± 7.6 mV/V (+/- 19000 x 10-6)
Exciting voltage	+ 2.5 VDC
Resolution	1 uV
Accuracy	+/- 0.05% +1 uV or batter

Thermistor sensor Input

Number of channel	1 channel (2 wires)
Temperature range	3K Thermistor

Rain gauge sensor Input

Number of channel	1 channel

Digit I/O

Digit Input	1 channel (for option fuction)

Sensor power support

5.0 VDC voltage output	Up to 150 mA
Source DC voltage output (9 ~ 16 VDC)	Up to 2A

RS-232/485 / USB Serial Port

Baud rate (Default)	9600 bps
Data bits	8
Stop bits	1
Parity	None

Datalogger

Full channel storage capacity (Arrays)	50000
Real Time Clock	Yes
Source DC voltage monitoring	Yes

Power requirements

Power supply	9 to 16 V
Idel	72mA @ 12 VDC
Work	80mA @ 12 VDC

Physical characteristics

Dimensions	150 x 30 x 120 mm