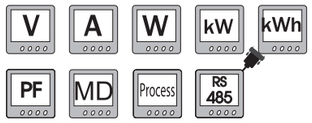
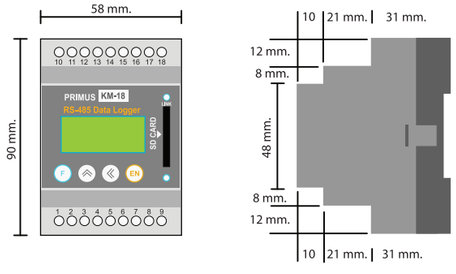


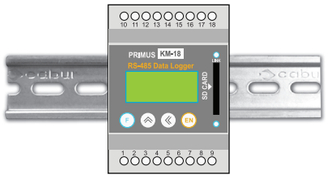
TECHNICAL SPECIFICATION

Power Supply		230 VAC ±15 % 50-60 Hz
Power Consumption		2 VA
Display		Character LCD 8x2 with Backlight
Memory Capacity		SD Card Up to 16 GB
Communication	Protocol	MODBUS RTU
	Baud Rate	1200, 2400, 4800, 9600 19200, 38400, 57600 bps
	Parity	None, Even, Odd
	Stop Bits	1, 2
	Data Bits	8 Bits
	Support Device Node	Up to 32 Meter
Ambient Operation	Temperature	-10 ℃ to 60 ℃
	Humidity	85 % RH Non-Condensing
Ambient Storage	Temperature	-20 ℃ to 80 ℃
	Humidity	85 % RH Non-Condensing
Protection Degree	Front Protection Rating	IP30
	Case Protection Rating	IP30
Installation		DIN RAIL Mounting
Material		ABS -V0
Size		58 x 90 x 62 mm.
Weight		270 g.

SIZE AND DIMENSION



INSTALLATION

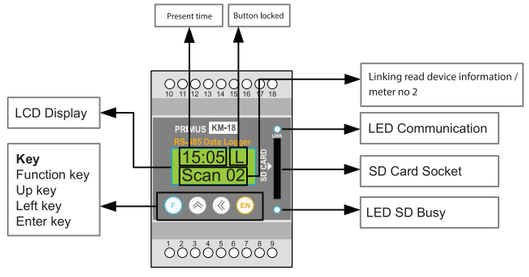


DESCRIPTION

- KM-18 is a reader from the Meter, Indicator, Temperature Controller Via RS-485 MODBUS RTU to save data to SD Card
- Can connect to up to 32 devices
- SD Card stores data up to 16 GB
- LCD screen display Character
- Able to program the reading order from the device with Address
- Can specify the initial parameters and the number you want to read.
- Sampling time can be set to read data via RS-485 MODBUS RTU. Every hour, minute, second
- Can store data in the form of a Text File and can open files with Notepad, Microsoft Word, Microsoft Excel etc. Software to convert data read from SD Card displayed in graphs and Excel report (Meter device, Temperature Controller of Primus C company)
- Convenient, cost-effective, easy to install (DIN RAIL), no need to open stand-by computers are always available to store data.

GENERAL DESCRIPTION

KM - 18 is a device that acts as a master in MODBUS RTU / ASCII Line RS - 485 communication system. KM -18 will retrieve data from a Slave device in the order of the specified ID and store the readable data on the SD Card. In the form of a text file, which will be separated into folders according to the device ID and separated into files according to the date



Inserting an SD Card into the KM-18

1. Facing the side with the cutting angle of the SD Card toward the LED Busy
2. Insert SD Card into the box
3. Press the SD Card until the SD Card is at the same level as the screen.

Caution, Instructions for using the SD Card

1. Format SD Card before using with computer, KM-18 supports both FAT16 and FAT32
2. SD Card must be inserted in the correct side only So it can work
3. Do not unplug or pull the SD card immediately while SD card data is being recorded, as it may damage the SD Card data.
4. Data that is recorded on SD Card should be regularly backed up to the computer.

Basic troubleshooting

1. Cannot link RS - 485 and save values from device or meter

1.1 Check the RS - 485 cable that A, B must not be interchangeable or not broken.

1.2 Check the Baud Rate, Parity, Stop Bit of the device or the meter must match. (Setting of KM-18 at Comm. Menu.)

1.3 Measure the resistance between A, B more than or equal to 120 Ohm. If measuring less than this, release R. Bracket A, B of (RS-485) must have a lot of resistance. Equipment or meter

1.4 Check the device settings in the DevSetup menu that the Slave Address set in KM - 18 must match the device or meter.

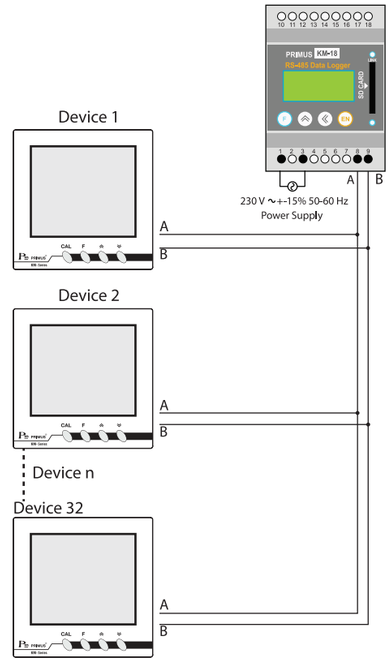
1.5 Check the device settings in the DevSetup menu that Length must be greater than 0.

Reset PIN

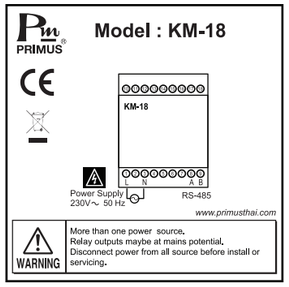
In the case of security, the keypad is locked. The PIN must be entered correctly to unlock. If forgotten, the PIN code can be reset with the following steps.

1. Go to the Security >> Enter PIN page.
2. Complete the wrong code 3 times.
3. Then enter the code 1634
4. The display screen will enter the Security menu. Press the button ⏶ until the display screen appears Change PIN. Press the button En and set the new code as needed.

WIRING DIAGRAM



Can connect KM-06N, KM-07, Multicube that need to record up to 32 characters



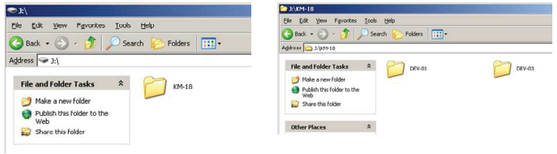
ORDERING

KM-18 [ ]

None	For Indicator/Counter/Temperature Controller With RS-485
1	For Power Meter With RS-485

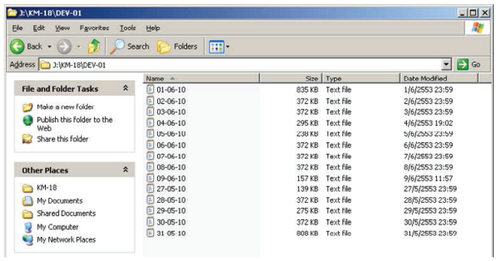
Data storage fomat

When SD Card inserted into Card Reader



Within Folder KM -18

The folder DEV-XXX is a folder that stores the device information.
It is divided into files per day.



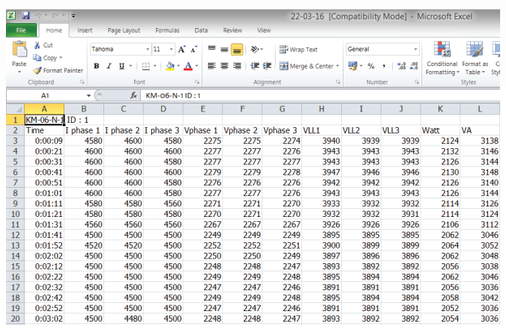
File format

File name: DD-MM-YY.tet
Type: Text File
Programs used to open files: Notepad, Microsoft Excel, Text Editor in general

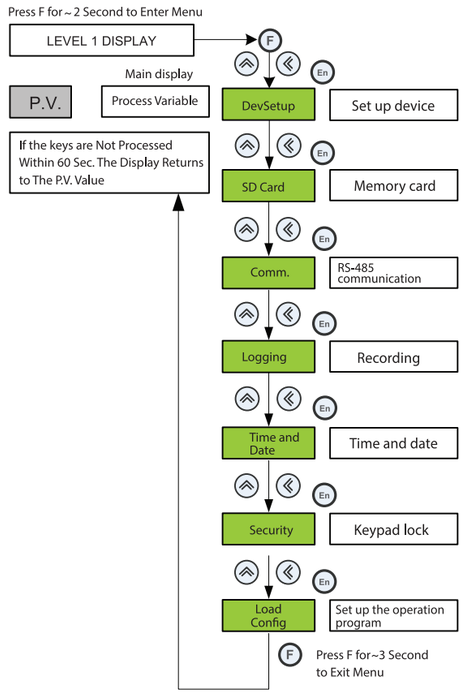
[KM-06-N] device name Menu DevSetup--> Dev.Name [KM-06-N] Device No 1

Opening file by Microsoft Excel

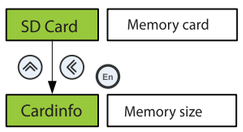
Right click atfile --> Open With --> Microsoft Office Excel



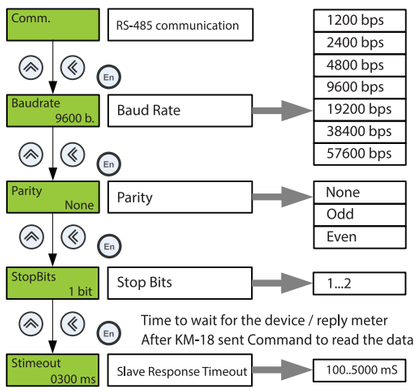
Menu and Display



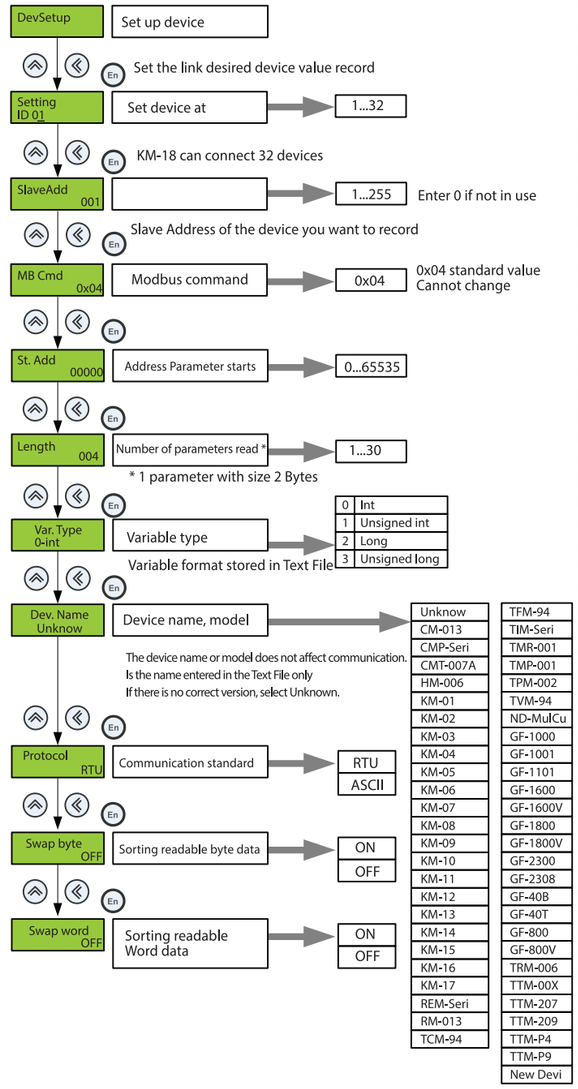
Menu SD Card



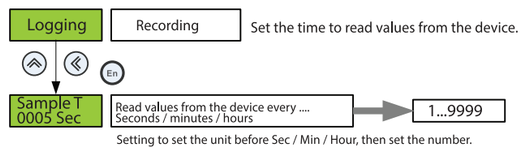
Menu Communication



Menu Device Setup

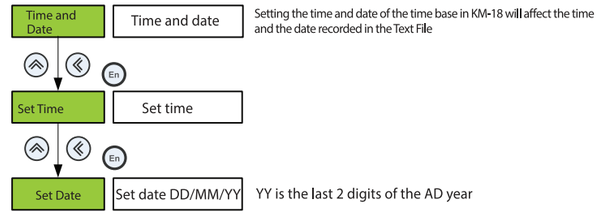


Menu Logging

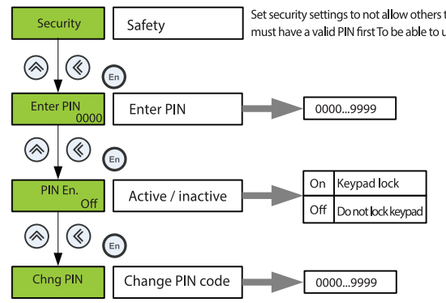


For example, if there are 10 devices, Sample T is equal to 5 minutes, 1 cycle will be 50 minutes. Each device will be read every 50 minutes

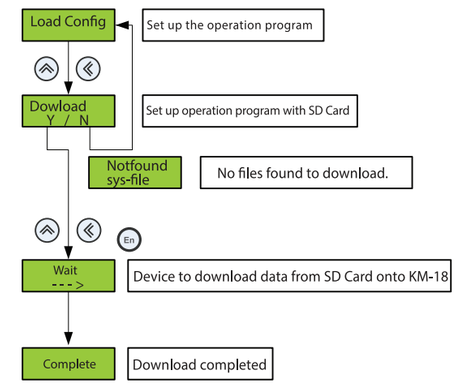
Menu Time and Date



Menu Security



Menu Load Configuration



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