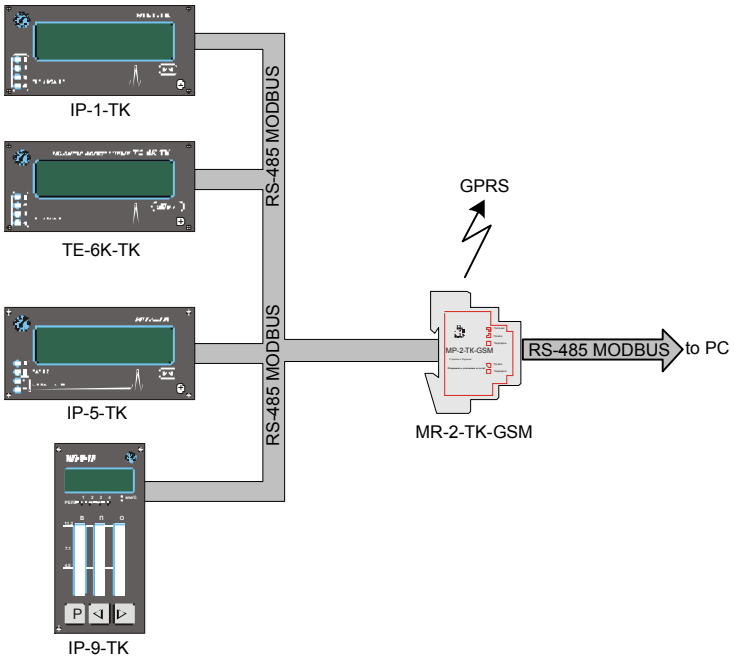
PURPOSE

Log and data transfer module MR-2-TK is designed for collection and archiving data received from others devices via RS-485 interface (Modbus RTU or Modbus ASCII protocol) and archive transferring via GSM-channel as email messages.

Device can measure and archive two unified current (0..20 mA) or voltage (0..1 V or 0..10 V) signals.

Archive files from SD-card are saved in csv format and can be opened by Microsoft Excel, LibreOffice Calc or analogous applications. Transferring and viewing archive on PC without SD-card ejecting can be done with special software (is supplied with device).

- Up to 32 channels.
- Two measuring inputs.
- Archive is saved on SD-card.
- Archive transferring via GSM/GPRS channel.
- User notifications about emergency situations.
- Archiving period is set programmatically.
- Archiving threshold is set programmatically for each channel.
- Nonvolatile real-time clock.
- DIN-rail mounting housing.
- LED indication of operating modes.
- Three archiving modes:
  - **Static** – data is written periodically over time from settings.
  - **Dynamic** – data is written if difference between current and previous value exceeds threshold value from settings.
  - **Emergency** – data is written if error occurs or on relay operation.

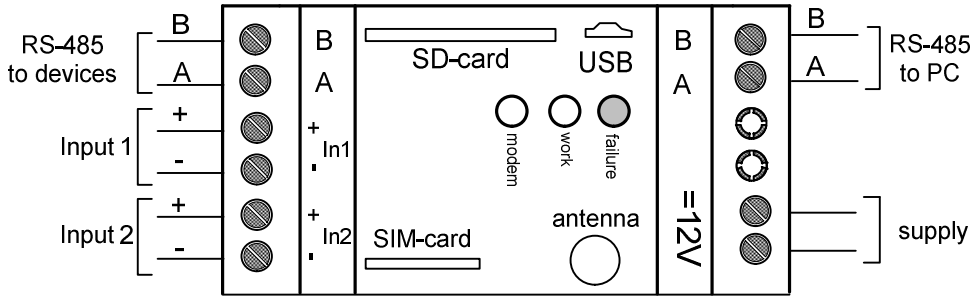


Data collection and archiving system example

SPECIFICATION

- Max channels count 32
- Supported type of memory card ..... SD
- Max SD-card size, Gb 2
- File system type FAT16
- Archive files type ..... csv
- Baud rate, kbps 9,6; 19,2; 38,4; 57,6; 115,2
- Input voltage range, V ..... 0..1

WIRING DIAGRAM



ADDITIONAL INFORMATION

- Operating temperature range ..... +5°C ..+50°C
- Dust and moisture protection..... IP41
- Three galvanic isolated RS-485 interfaces:
  - for data collecting from devices (Modbus RTU and Modbus ASCII protocols);
  - for connecting to SCADA (Modbus RTU protocol).
  - for connecting to SCADA (miniUSB).
- Scope of supply includes software for setting up device, archive reading and displaying data as tables or charts.
- Power supply .....12 VDC±10%
- Power consumption, up to, VA 3
- Overall dimensions (W×H×D), mm ..... 36×98×58

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