



Indication panel PI-TK is designed for collection, storage and displaying technological parameters values received from other devices via RS-485 interface Modbus RTU protocol.

User can choose parameter to display manually by pressing appropriate buttons on the panel.

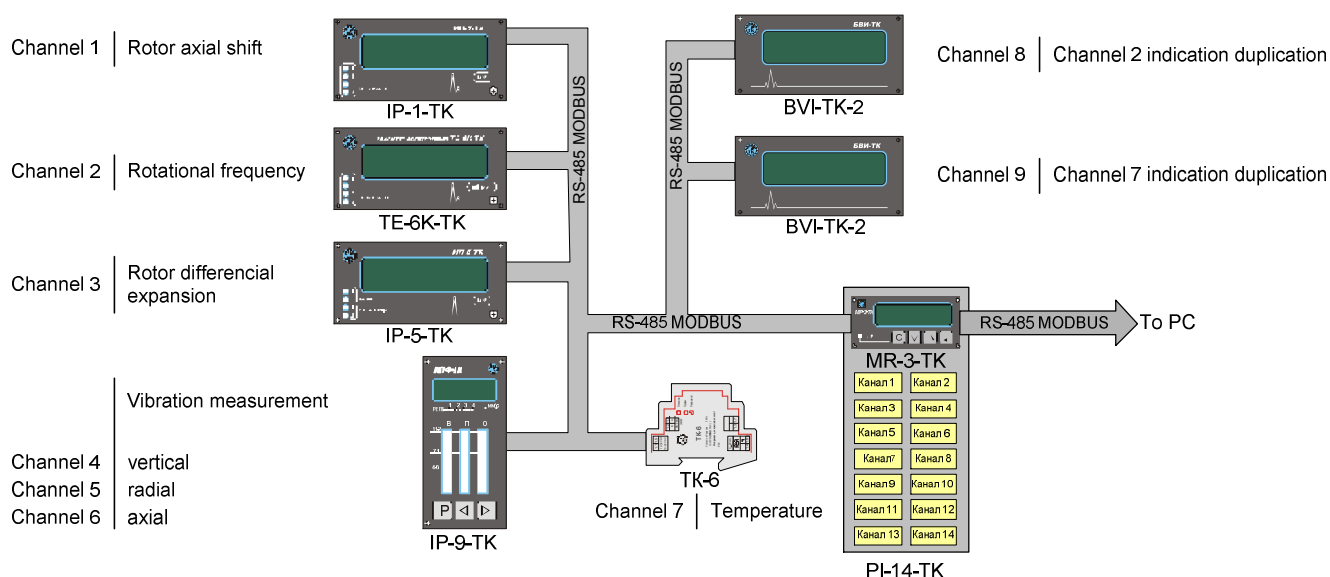
Parameters values are displaying sequentially per each channel in auto-mode.

If indication panel has less than 16 buttons free channels can be used for parameters displaying on remote indication units like BVI-TK-2.

Archives files from memory card can be opened by Microsoft Excel, OpenOffice Calc etc. Transferring and viewing archive on PC without SD-card ejecting

can be done with special software (is supplied with device).

- Max channels number – 16.
- Archiving to removable SD card.
- Archiving period is set programmatically per channel.
- Processing commands from buttons on indication panels PI-TK or PR-1-TK.
- Personal settings for every channel to receive data from device or transfer data to remote indication unit BVI-TK-2.
- LED indication for automatic mode (loop through the channels).
- Nonvolatile real-time clock.
- 5-digits LED indicator with 14mm symbol height
- 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

Indication panel consists of:

- multichannel logger **MR-3-TK**;
- indication control buttons. Indication panel can have 8, 10, 12, 14 or 16 buttons.

Multichannel logger and buttons are fasten to metal base, which size is determined by the customer requirements.

SPECIFICATION

- Buttons number according to indication panel modification:
 - PI-8-TK..... 8
 - PI-10-TK..... 10
 - PI-12-TK..... 12
 - PI-14-TK..... 14
 - PI-16-TK..... 16
- Polling channels count 16
- Memory card type SD, micro 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

ADDITIONAL INFORMATION

- Operating temperature range +5°C ..+50°C
- Dust and moisture protection..... IP41
- Two galvanic isolated RS-485 interfaces:
 - for data collecting from devices (Modbus RTU and Modbus ASCII protocols);
 - for connecting to SCADA (Modbus RTU protocol).
- Scope of supply includes software for setting up device, archive reading and displaying data as tables or charts.
- Power supply (24±4) VDC
- Power consumption, up to, VA 8
- Mounting dimensions, mm:
 - cutout size, not less than 122.5×193*
 - mounting depth 160

* - is defined by metal base size.

ORDERING DESIGNATION

Indication panel PI-XX-TK, where

XX – buttons count from from a variety 8, 10, 12, 14, 16.

Example. **Indication panel PI-14-TK** – indication panel PI-TK with 14 buttons and 2 free channels for remote indication units BVI-TK-2 connecting.