Machine Monitor System

The RST Machine Monitor System can monitor up to 8 pumps simultaneously. Data is collected whenever a pump's status changes for more than a one second interval.

A total of 106,474 records (530 kB) can be stored in the loggers' FLASH memory. Data can be viewed or downloaded via the asynchronous serial D9 connector, capable of downloading all 106,474 records to a PocketPC™ (PDA) in 60 seconds.

The PocketPC™ can be connected directly to a PC or laptop, via the Serial Adapter for Data Reduction. Simply connect the PocketPC™ interface cable to your computer and traverse the directory structure of the Pocket PC™ and copy, or move the files to the desired location on the receiving computer.

The Machine Monitor System comes complete with the Machine Monitor, Machine Monitor Software, Machine Monitor to Computer Serial Adapter, and Terminal Connector. 4 AA batteries are included to provide at least 1 year of standby or 3 full memory downloads (319,422 records).

specifications

ITEM	DESCRIPTION
Inputs	8 Channels Dry contact – i.e. floating relays which close when the pump is energized, each fully floating with respect to ground. All channels protected against faults to 110 VAC. Connections via screw terminals.
Minimum Event	Events of less than 1 second duration ignored to avoid null triggers, hum pickup, contact clatter etc.
Sampling Interval	1 second.
Data Storage	Up to 106,474 records in FLASH memory for data retention through battery replacement. Each record contains a full timestamp and 8 status bits. Data collection is event-driven: i.e. data is collected only when there is a change.
Processor	ATMEL ATMEGA 163 8 bit microcontroller, 3.68 Mhz quartz crystal clock.
Communications	Asynchronous serial D9 connector, 115,500 bps, no parity, 1 stop. Time for full download is 60 seconds.
Real Time Clock	Lithium battery backed, keeps accurate time through main battery change. Accurate date through year end and leap year. Accuracy 1 minute per month.
Power	4 AA size batteries. Alkaline batteries give minimum 1 year standby / 3 memory fill life from 10-40° C.
Packaging	Plastic enclosure, 146 X 91 X 33 mm. Belt clip style mounting.
Part Number	ELPL8026K

ordering info

ITEM	PART #
Machine Monitor	ELPL8026K

RST Instruments Ltd.
11545 Kingston St.,
Maple Ridge, BC
Canada V2X 0Z5

Telephone: 604 540 1100
Facsimile: 604 540 1005
Toll Free: 1 800 665 5599

info@rstinstruments.com

www.rstinstruments.com

applications

Simultaneously monitors changes in status of up to 8 pumps.

features

Transfer data to from PocketPC™to laptop or PC to view extracted records graphically.

Centralized data logging.

Data collection occurs only during a change in an event or status.

106,474 records (530 kB) of storage capacity is available in the loggers' FLASH memory.

View, or download, data via the asynchronous serial D9 connector.

Entire FLASH memory can be downloaded in 60 seconds.