

	PRODUCT CATEGORY:
	READOUTS + DATA LOGGERS

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 hand-held Field PC in 60 seconds.

The hand-held Field PC can be connected directly to a PC or laptop for transferring data. 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).



> APPLICATIONS

Simultaneously monitors changes in status of up to 8 pumps.

> FEATURES

Transfer data to from a hand-held Field PC to PC or laptop.	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.	Centralized data logging.

> BENEFITS

- Increase Productivity**
- High Reliability**

SPECIFICATIONS

ITEM	SPECIFICATION
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.

ORDERING

ITEM	PART #
Machine Monitor	ELPL8026K

OPTIONAL

ITEM	PART #
Ultra-Rugged Field PC2	IC32000-AR2-RSTS