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Display/Data Logging box (HMI) for Smart Sensors



Display/Data Logging box for Holroyd MHC Smart Sensors

The cost of unplanned maintenance and unexpected line stoppage can far outweigh the cost of replacement components. The use of condition monitoring to measure in real time the machinery state allows corrective actions to be taken prior to any unplanned outage, thus reducing the overall cost of machinery maintenance.

Parker Holroyds proven Acoustic Emissions Technology has been used by many industry leading companies for over 20 years to monitor critical machinery and to indicate any degradation in condition, allowing maintenance staff to take the right corrective actions. Using simple to understand parameters, along with the background dB noise level, trending of a bearings condition is easily achieved.

The Parker Holroyd line of Smart Sensors (DS1 and SM1 sensors) allow these accurate measurements to be made in permanently installed situations, giving 24/7 protection of your critical assets. Parker Holroyd's Human Machine Interface (HMI) box allows easy interfacing and display of multiple Smart Sensors to a single display unit, allowing monitoring of machinery condition from one central location.

Variety of reporting methods: - Use the HMI directly or over an ethernet/intranet connection, email alerts triggered by alarms, relays to trigger user equipment on alarms (e.g. shut down machine if damage gets above a certain level).



Easy to read and interpret display for data interpretation



Holroyd smart sensors for permanent installations

The HMI can record data from up to 10 sensors and process that data to provide a Red/Amber/Green status for each sensor, based on user specified alarm levels. The optional beacon allows the machine status to be observed from distance, allowing multiple machines to be observed from a central control location.

Alarms can trigger any combination of the following :

- Colour change on the screen (also viewable remotely)
- Colour change on the traffic light beacon
- Email alerts to user specified email addresses
- If the beacon is not used there are 4 user usable relays - All sensors green, one or more sensors amber, one or more sensors red, and one or more sensors amber or red. If the RAG beacon is used, the 1st three relays are used by the beacon - only the 'one or more sensors amber or red' is available to the user.

Data is logged on an ongoing basis, allowing machine trends to be observed over time and differing load conditions. Data logging for all 10 sensors for approximately one year is available using the supplied CF card. Historical data can be viewed as a graph on the HMI itself, or via logfiles (.csv) accessed via an ethernet connection.



Key Features of the HMI

- Quick Visual check of condition
- Trending and graphing of historical data
- Multiple data outputs available, including via intranet connection and e-mail alerts
- Data stored on CF card for long term trending
- User configurable setup (sensor numbers/types/outputs/ log time/alarm levels), to suit each application



Multiple sensors (up to 10) can be connected per HMI box

Specification

Rated Input Voltage	230V AC
Rated Input Current	1.4A
IP Rating	IP 66 (the optional beacon attachment has a rating of IP 65)
Alarm Relay Output Voltage	24V
Alarm Relay Output Current Max	1A
MHC-HMI IP Address	169.254.72.161 - Default. User definable at time of ordering
Sensor IP Address	169.254.72.162 - Default. User definable at time of ordering
Mounting Requirements	4 x M8 bolts – mounting holes accessible from inside the MHC-HMI
No. of Sensors	Up to 10 DS1 Smart sensors or SM1 SlowMode Sensors (in any combination)
Rotational Speeds Monitored	Down to 0.25 RPM (using SM1 Sensors)
Case Material	304 Stainless Steel

Benefits

- Early detection of issues
- Simple to interpret
- Low cost setup
- Reduces overhead when using multiple Holroyd sensors



Ordering information

Product Code	Description
FG-H19961-KH	MHC-HMI for use with up to 2 Holroyd Smart Std or Smart Slo sensors
FG-H19962-KH	MHC-HMI for use with up to 4 Holroyd Smart Std or Smart Slo sensors
FG-H19963-KH	MHC-HMI for use with up to 6 Holroyd Smart Std or Smart Slo sensors
FG-H19964-KH	MHC-HMI for use with up to 8 Holroyd Smart Std or Smart Slo sensors
FG-H19965-KH	MHC-HMI for use with up to 10 Holroyd Smart Std or Smart Slo sensors
FG-H19922-KH	Red / Amber / Green Beacon for any of the above



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