DATA LOG TOOL

The Regulateurs Europa data log tool, interfaces with the Regulateurs Europa engine management system, performing intelligent logging of control, protection and monitoring parameters.

DATA LOG TOOL

OPERATION:

The full data schedule is sampled every 200msecs in each of three states of operation, which are:

Log Commissioning:

- Ensures efficient use of memory capacity.

- Preset log commissioning requirements must be met for each data set before data can be written to 'Memory'.

Continuous Logging:

- Supports effective user assessment of system operating profiles and parameter trends.

- Once commissioned, tool continuously logs data at predefined rate (low frequency).

Exception Initiated Logging:

- Supports effective user assessment of system control, alarm and protection functions.

- An exception based log period is enabled should one of the exception initiator parameters change state in a predefined manner.

- Parameters relevant to the particular exception initiator group are stored at the individual sample rates of the data sets in that group.

- The exception log initiation condition appears centrally in the predefined exception logged data period.

EQUIPMENT BREAKDOWN:

PC Logged Data Display Software (LDD):

- Windows based.

Data Log CL2-I/P Unit:

- Stainless steel enclosure,

- 1 off external connection for power and CAN comms,

- Houses 'Monitor' PLC and 'Record' memory module,

- Easilly accessed memory card for transfer to PC running Regulateurs Europa LDD software for data extraction & viewing.

Appropriate Interconnection Cable.

DATA LOG TOOL

USER INTERFACE:

The user friendly Regulateurs Europa 'Viking Vision' Window, PC programming package provides the main user interface to the data logger.

The 'Viking Vision' Display menu provides indication of:

Logging Status:

- Continuous Log, Exception Log, Data Log Unit Fault or System Comms Fault.

Record Status:

- Healthy, Failed.

Memory Usage:

- >80% Memory Used.

The 'Viking Vision Edit menu provides the following:

- Ability to individually enable/disable exception log groups.

- Ability to manually initiate an exception log period of all data.

Figure 1: Latest Measurement (September 2004) With Corrected COT Signal

FEATURES

- Easy to connect, portable, small and compact Data Log CL2-I/P Unit.

- Local Indication of Data Logger Supply Healthy.

- Local Indication of Data Logger System Healthy.

- Local Indication of Data Logger Memory Usage >80%.

- 'Record' time stamps all received data using an internal clock as reference.

- Memory card has capacity to store up to 5 days of combined continuous and exception initiated logged data, under normal operating conditions.

- New data is always stored as a priority over older data.

SPECIFICATION

Data Log CL2-I/P Unit

Dimensions
250mm(W)
x 250mm(H)
x 110mm(D).

Environmental
Temperature, 0 to 70°C Operating ambient.

IP Rating
IP54.

Data Log CL2-I/P Unit

Weight
Approximately 7kg.

Vibration
The Data Log CL2-I/P Unit Is designed to withstand shock loads of 4g horizontally and 2g vertically. (the unit is mounted upon 4 off anti-vibration mounts).
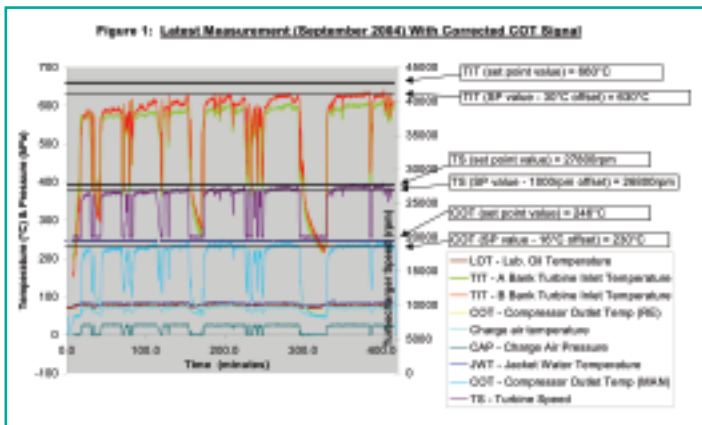
EMC
Designed to comply with BS/IEC/EN61000 Pt4-1

Power Supply
24Vdc, 2A.

Communication Interfaces
CAN communications (Regulateurs Europa CANlog01 communications protocol module software interface).

Connections
All connections are via plug connectors with wires either crimped or soldered.

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