

# SPECIALIST PRODUCTS

## MERA IMS™ HUB

### Intelligent Monitoring System Hub

#### About the MERA IMS™ Hub

The 'IMS' HUB houses the PLC and power supply that interfaces with all remote sensors. The PLC receives the raw data from the field sensors via CAN BUS. This data is processed via the IMS algorithm and output to the HMI screen in usable visual data. The HMI is set with alarm data set points to alert the operator to any condition change outside of the set parameters.

The data can be exported to a central DCS system via any number of mediums such as RS232/485, IP Network and CAN bus or locally to memory stick. In addition to local analysis, the data can be viewed over a remote internet connection for remote monitoring of data for unmanned platforms or on beach for a condition monitoring team.

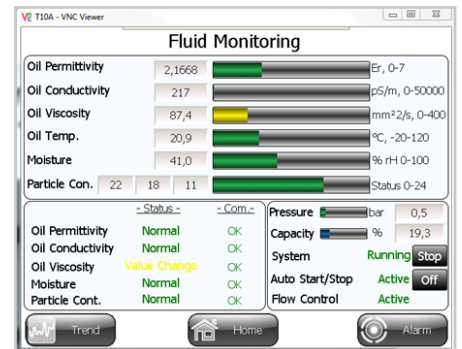
The IMS HUB can be placed anywhere as requested by the client. The IMS is a module based system allowing it to be upgraded and add additional sensors added as required. The IMS can be fully customised to offer a complete condition monitoring platform.

#### Measured Parameters

- Particle contamination level
- Kinetic viscosity
- Humidity
- Conductivity
- Temperature
- Wear

#### Internal System Parameters

- Pressure
- Temperature
- CPU Status
- Pump Status



Data	Description	Unit
<b>Electrical</b>		
Power supply input	220	Single phase VAC
Power supply output	24	VDC
Current	<5	A
Frequency	50/60	Hz
Data output <sup>1</sup>	Communication	Industrial Interface
<b>Mechanical</b>		
Dimension <sup>2</sup>	600 x 600 x 210	W x H x D
Material	316	Stainless Steel
Protection Class	67	IP
<b>Other</b>		
Operation amb. temp.	-10...35	° C
Storage temp.	-10...60	° C
Ambient humidity	0...90	%
Weight	30	Kg
HMI <sup>3</sup> integrated	10	"
<b>Item number</b>		
IMS Control Hub		101705

<sup>1</sup> Can be configured according to spec

<sup>2</sup> Can be configured depending on scale of integration

<sup>3</sup> Panel pc/external server optional

#### Key Benefits

- Real time data monitoring of oil condition
- Extend the life of oil by knowing the condition at all times
- Decrease unnecessary oil changes saving money and time
- Increase environmental benefits from reduction in oil changes
- Early identification of component degradation
- Planned maintenance as required instead of set schedule