

## **DS-460**

### **A new generation of data collector**

The DS-460 is a powerful, real time, data collector. Designed to simplify the task and increase the speed of collecting condition monitoring data. It is ideally suited for use in a wide range of industries such as paper, petrochemical and primary metals.

The DS-460 is capable of measuring, processing, displaying & storing a wide range of measurement parameters. It can collect various types of field data, including vibration information, bearing assessment and process variables

The DS-460 allows platform customisation of enclosure and firmware. Customisable features allow custom splash screen, colours scheme, help files and “product about” text information.

#### **KEY FEATURES:**

- **Rugged –Truly hand held**
- **Bright backlit colour display**
- **2 channel data collection**
- **Easy to use**
- **Application modules**
- **Customisable platform**



## Data Collection Specification

<b>Input Signal Types</b>	ICPTM Accelerometers, Velocity Transducers, Displacement Probes, Infrared Temp Sensors, Triaxial transducers, Accel / Vel Transducers, AC/DC Volts, Manual Entry
<b>Signal Inputs</b>	3x ICP, AC Signals, DC Signals, Tachometer [Trigger input- photo optical / etc]  Power input - battery charge
<b>Measurement Parameters</b>	Acceleration, Velocity, Displacement, ESPTM, Temperature, Phase, Voltage, User Specified
<b>Measurement Types</b>	Overall, Spectrum, Time waveform, Phase, Order Normalised, Spectral Band Alarm
<b>Machine Identification</b>	Plant, Train, Machine and point ID, Point description, Units, Alarm Levels, Previous Measurements, Alarm Types
<b>Input Channels</b>	2 Simultaneous
<b>Channel 1</b>	Triaxial ICPTM / AC / DC
<b>Channel 2</b>	ICPTM / AC / DC
<b>Input signal range</b>	+/- 40 Volts Max
<b>Signal</b>	RMS / Peak / Peak to Peak/True Peak
<b>Transducer Check</b>	Bias Voltage Integrity
<b>Auto Range</b>	Yes
<b>Dynamic Range</b>	> 90 dB
<b>Frequency Range</b>	DC to 40 kHz Max
<b>AC / ICP</b>	0.16 Hz Min
<b>Integrated</b>	0.22 Hz Min
<b>Filters - High Pass</b>	2, 10, 70 Hz
<b>Bearing condition</b>	ESP™
<b>ESP™ Filters</b>	0.6 - 1.25, 1.25 - 2.5, 2.5 – 5, 5 – 10, 10 – 20 kHz
<b>Real Time Rate</b>	40 kHz single channel
<b>FFT Resolution</b>	100 - 12,800 lines
<b>Time Block Length</b>	256 – 16,384 samples
<b>Averaging</b>	Time and Spectral
<b>Alarms</b>	Overall and Spectrum

## Enclosure

<b>Size</b>	186mm x 93mm (narrowest point) , 186mm x 134mm (widest point)
<b>Weight</b>	< 700g (1.5lbs.)
<b>Display</b>	3 ½ ", ¼ VGA, Backlit Colour LCD,

## Environmental

<b>Sealing</b>	IP65 (Dust & Water Proof)
<b>Drop Test</b>	2 Metres (6 Feet) – To Mil 810 Spec
<b>Temperature Ratings</b>	-10 to +50 °C Operating Temp -20 to +70 °C Storage Temp

## System

<b>PC Comms</b>	USB 1,1 Client (MS Active Sync™) V.28 levels & IrDA (MS Active Sync™) RS232 (9 way D-Type) (DI-225-D Protocol)
<b>Communication</b>	DI-225-D Protocol & MS Active Sync™
<b>User Indicators</b>	Red, Amber & Green LED's
<b>Battery</b>	Rechargeable Lion, Canon BP91x type, 6 hours continuous operation . Gas Gauge - battery capacity indicator
<b>Battery Recharge</b>	Internally via mains adapter – Optional external charger available
<b>Operating System</b>	Windows CE (configuration defined by application requirements)

## Memory

<b>Internal RAM File Storage</b>	64 Mbytes SDRAM 64 Mbytes, OS, Applications, Secure Files-- >40 MB for Data Storage
<b>PC Card</b>	PCMCIA Type II MMC/SD

## Accessories

<b>Accessories</b>	A number of accessories are available to complement the DC-460 These include: Transit Case, Service Case, Shoulder Straps, Rubber Bump Sleeve, Soft Protective Case and Belt Clip, Laser Tachometer, Cables and Accelerometers.
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## For further information, contact:

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