

Mobile

Data Technologies

www.mobiledatatech.com



“Simplifying Technology”

PRODUCT CATALOG

OUR PURPOSE

We believe that providing accurate data and information, presented through an easy to use interface, leads to improvement opportunities for companies in any industry. Mobile Data Technologies can provide that competitive edge and allow your company to lead the pack.

“Simplifying Technology”

THE BEGINNING

In 2008, a group of engineering leaders in the lumber industry, were approached by an oilfield service company in Northern Alberta. These engineers were asked to develop a data acquisition system that would generate a concise and easy to understand job report based on collected data from the service truck they operate.

After working closely with the service truck manufacturer to develop the first ever system, the request for a dozen more systems proved that there was a high demand for these advanced and robust data acquisition systems and the flagship MobileDAS™ was born.

HIGH GROWTH TECHNOLOGY

Since the first unit, Mobile Data Technologies has significantly changed the level of service that companies like yours can offer:

- MobileDRS™; shop testing unit
- MobileDAS LT™; an entry level unit for smaller service trucks
- MobileDAS XD™; a stainless steel enclosed system for more advanced jobs
- MobileDAS XDC™; introduces control function for pump units
- MobileDAS EXDC™; external data acquisition & control system
- MobileDAS ELT/EXT™; externally mounted systems for all weather conditions
- MobileDVS™; the DataVan system

As well as several software advancements that serve Fracturing, Fluid Pumping, Coil Tubing and other applications.

SUPPORT

Your profitability depends on being able to offer a high level of service to your customers. That is why we offer the most comprehensive technical support available today. Whether it is remote support from our world headquarters or hardware support in the field, you can rest assured that MDT has you covered.



Davis McGregor; President & CEO
Blair Thornhill; VP Sales & Marketing
Jesse Duncan; Vice President & CTO
(left to right)

Lloydminster Heavy Oil Show - 2010

APPLICATIONS



Hot Oilers



Nitrogen Units



Pressure Trucks



DataVan Units



Double Fluid/Frac Pumpers



Coil Tubing Units



Pipeline Testing



Refinery/Shop Testing

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HARDWARE

MobileDAS™



Data Acquisition System

Ideal for any type of mobile testing unit

- Data hub junction box (14"x12"x6") complete with silk screened labels
- 8 ch analog (2 IS and 6 Non IS) input module (4-20 mA)
- 2 ch high speed counter input module (4.5kHz)

- 4 ch relay output module w/ switches, rated at 10A
- 8x panel mount 6 pin Bayonet receptacle female connectors (analog sensors)
- 2x panel mount 3 pin military receptacle female connectors (rate sensors)
- 4x panel mount 2 pin military receptacle male connectors (relay outputs)

- Vicor intelligent power controller, 10-30VDC input, 24VDC output, 200W
- 6x diagnostics lights (power in, power out, relays 1-4)

Temperature Ranges:

Operating -10°C to +45°C (14°F to +113°F)
Storage -40°C to +70°C (-40°F to +158°F)

MobileDRS™



Data Recording System

Ideal for shop testing environments

- Industrial 15" Touch Screen CPU w/160 GB hard drive
- Powder coated enclosure
- 4 ch analog input module
- 1 ch counter input module

- Two USB ports
- AC power supply
- 4 relay outputs
- 2 digital inputs

Temperature Ranges:

Operating -10°C to +45°C (14°F to +113°F)
Storage -40°C to +70°C (-40°F to +158°F)

MobileDAS LT™



Data Acquisition System - Lite

Entry level system, ideal for mobile testing applications

- Industrial 10.4" Touch screen CPU w/solid state drive complete with enclosure
- 2 analog inputs (M12 connector)

- 1 counter input (M12 connector)
- Intelligent 12 VDC power controller (10-30VDC Input)
- 20' power cable
- Built in cellular module (requires dataplan)
- Built in wireless capabilities for remote support

Temperature Ranges:

Operating -10°C to +45°C (14°F to +113°F)
Storage -40°C to +70°C (-40°F to +158°F)

MobileDAS EXDC™



External Data Acquisition & Control System

Designed primarily for the use with Frac Pumps, the EXDC can be used in any single engine, single transmission controls application.

- 14 analog (2IS) input channels (4-20 mA)

- 2 analog out channels
- 2 high speed counter input channels (4.5kHz)
- 2 multi-function I/O connectors to manage up to 50+ inputs/outputs
- 1 ch counter input module
- 3 Ethernet channels for external device control or system networking

- 2 Deutsch connectors (one ECM, one TCM) for single Canbus (J1939) network.

Temperature Ranges:

Operating -40°C to +50°C (-40°F to +158°F)
Storage -40°C to +70°C (-40°F to +122°F)

HARDWARE

MobileDAS XD™



Data Acquisition System - Xtreme Duty

Ideal for heavy duty well stimulation equipment such as Fluid, Frac and Nitrogen Pumping Units, also ideal for Coiled Tubing Units

- Weather proof, stainless steel data hub junction box (20"x20"x8") w/ built in heater

- Industrial Programmable Automation Controller (PAC) w/8 slot chassis (supports quadrature input)
- Dual 8 ch analog input modules
- 4 ch counter module (1 ignition, 3 counter)
- Intelligent power controller (10-30VDC Input)
- Relay safety shutdown capable (additional hardware required)

Temperature Ranges:
Operating -40°C to +45°C (-40°F to +113°F)
Storage -40°C to +70°C (-40°F to +158°F)

MobileDAS XDC™



Data Acquisition System - Xtreme Duty w/ Control

The MobileDAS XDC is used to operate the ETCM (Engine & Transmission Control Module) see pg. 13 software modules for details

- Weather proof, stainless steel data hub junction box (30"x 24" x 10") w/built in heater
- Industrial Programmable Automation Controller (National Instruments) w/8 slot chassis
- 12x 4-20mA input channels

- 6x voltage input channels
- 4x counter channels (0-10V)
- 2x quadrature encoder channels
- 2x RTD channels
- 1x ten relay switches (10 amp)
- 1x six relay switches (6 amp)
- 2x Deutsch connectors for engine (Canbus Network)
- 2x Deutsch connectors for transmission (Canbus Network)
- 4x Ethernet Bayonet connectors (PPC, datavan, remote control, module communication)

- 2x Multi conductor connector for control box communication
 - 4x Digital inputs
 - 1x Power in (10-30VDC)
 - 1x Power out PPC (24VDC)
 - 1x Power out modules (24VDC)
 - 1x Remote main power switch
- Temperature Ranges:**
Operating -40°C to +45°C (-40°F to +113°F)
Storage -40°C to +70°C (-40°F to +158°F)

MobileDAS ELT™



Data Acquisition System - External Lite

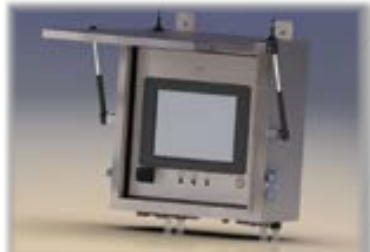
Entry Level Outdoor
Operating in all elements, ideal for applications that require an outdoor mount such as trailer units or units with external controls

- Industrial 10.4" Touch screen CPU w/solid state drive complete with enclosure & screen cover
- 2 ch analog input module (4-20 mA)

- 2 ch high speed counter input module (4.5kHz)
- 2x panel mount 6 pin Bayonet receptacle female connectors (analog sensors)
- 2x panel mount 3 pin military receptacle female connectors (rate sensors)
- 6x panel mount ethernet bayonet receptacle females (communication with external

- devices)
 - Intelligent power controller (10-30VDC Input)
 - Managed network switch
- Temperature Ranges:**
Operating -40°C to +45°C (-40°F to +113°F)
Storage -40°C to +70°C (-40°F to +158°F)

MobileDAS EXT™



Data Acquisition System - External

Ideal for applications that require and outdoor mount such as trailer units or units with external controls

- Industrial 10.4" Touch screen CPU w/solid state drive complete with enclosure & screen cover
- 8 ch analog (2 IS and 6 Non IS) input module (4-20 mA)
- 4 ch high speed counter input module (4.5kHz)

- 2 relay switches, rated 12VDC at 15A
- 8x panel mount 6 pin Bayonet receptacle female connectors (analog sensors)
- 4x panel mount 3 pin military receptacle female connectors (rate sensors)
- 2x panel mount 2 pin military receptacle male connectors (relay outputs)
- 6x ethernet bayonet receptacle female connectors (communication

- with external devices)
 - Managed network switch
 - Intelligent power controller (10-30VDC Input)
- Temperature Ranges:**
Operating -40°C to +45°C (-40°F to +113°F)
Storage -40°C to +70°C (-40°F to +158°F)

Data Van

MobileDVS™

Data Van System

- Industrial rack mount (7U) custom enclosure
- Industrail PAC (Programmable Automation Controller) w/8 Slot chassis
- 8 x 4-20mA input channels
- 2 x dual channel intrinsically safe (IS) barriers
- 4 digital input channels
- 5 port ethernet switch
- Single port power over ethernet for wireless capability
- Dual redundant power supplies, auto switching on failure, AC in/24VDC out

All-weather outdoor screen monitor available



Mobile Data Technologies can provide a complete data van package from concept to completion.

Data Van systems utilize the latest in technology while following the same corporate principle as every other product: Simplifying Technology.

Select from various options including: Interior/Exterior Design Options, Cable Reel Compartments, Audio Video including 20" and 40" LCD monitors, Satellite, HVAC, 120-140volt Options, Emergency lighting, Appliances, Custom Paint/Graphics and much more. Talk to your Technical Sales Representative for a quote.

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FALCON SOFTWARE



FALCON-X6 Software

Falcon software allows you to monitor up to 6 sensors or 2 sensors and a real-time graph all on one screen. Features include full zoom capability, treatment reports with on-graph annotations and multiple graph reporting.

- One user life time, run time license
- Supports single monitor 800x600 resolution in Day & Night Modes
- Automatic job report PDF generation w/company embedded logo
- Real-time monitoring with single graph and two digital sensor displays or up to six digital sensor displays without a graph
- On graph event tracking
- Strip charting mode
- Graph zooming function
- Up to 4 additional custom graphs per job
- Integrated company database
- Integrated job history database
- CSV file output
- Configurable record intervals & test duration
- Built in email for job reports
- Built in remote support utility
- Built in visual alarms (low, low-low, high & high-high)
- Built in test/fail lines
- Relay safety shutdown capable (additional hardware required)

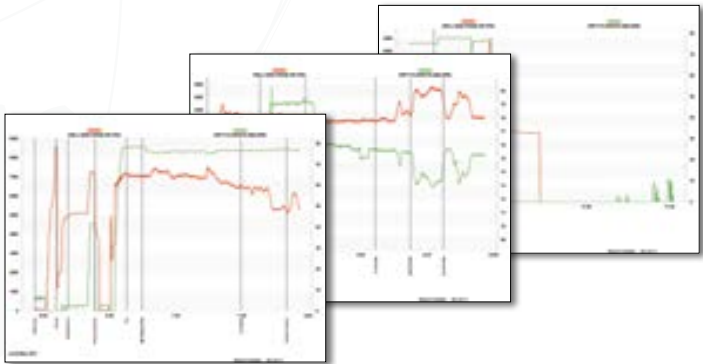
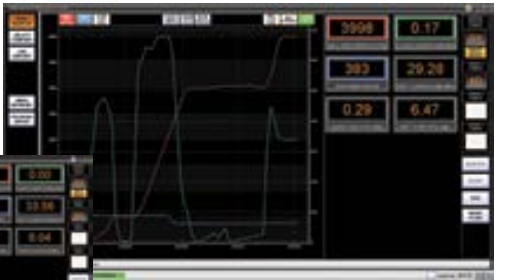


EAGLE SOFTWARE

EAGLE-X2 Software

Eagle software is ideal for applications that monitor more than 6 sensors at a time. View up to 3 real time graphs and 12 sensors at one time on a single 21" monitor.

- One user life time, run time license
- Supports single monitor 1920x1080 resolution
- Realtime monitoring with triple graph capability and up to twelve digital sensor displays
- Graph zoom ability
- Automatic job report PDF generation w/company embedded logo
- Integrated company database
- Integrated job history database
- CSV file output
- Configurable record intervals & test duration
- Built in email for job reports
- Built in remote support utility
- Built in visual alarms (low, low-low, high & high-high)
- Built in test/fail lines
- Relay safety shutdown capable (additional hardware required)



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CONDOR SOFTWARE

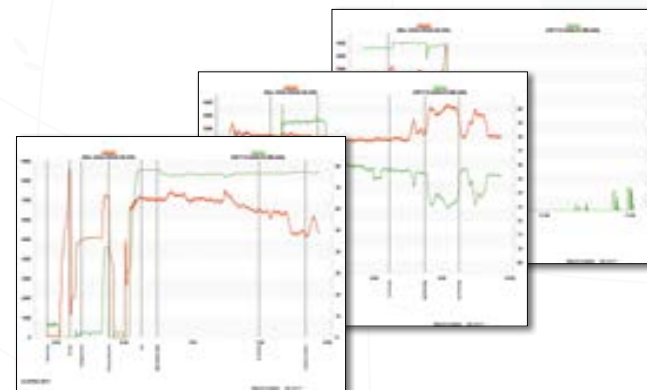


SOFTWARE MODULES

CONDOR-X2 Software

Supports up to eight screen monitoring.
Ideal for DataVan operations.

- One user life time, run time license
- Supports eight monitors with 1920x1080 resolution
- Realtime monitoring with triple graph capability and up to twelve digital sensor displays per monitor
- Graph zoom ability
- Custom report generator w/ multigraph/data set selector
- PDF generation for job report w/ company embedded logo
- Integrated company database
- Integrated job history database
- CSV file output
- Configurable record intervals & test duration
- Built in email for job reports
- Built in remote support utility
- Built in visual alarms (low, low-low, high & high-high)
- Built in test/fail lines
- Relay safety shutdown capable (additional hardware required)



The following modules have been designed by customers just like you who saw an increase in time and money savings when they added these functions.

Field Invoicing Module

Allows operator to complete a field invoice on the MobileDAS screen. Operator then can save invoice to a USB stick, email it to the customer or print a hard copy.

One user life time, run time license



ETCM (Engine & Transmission Control Module)

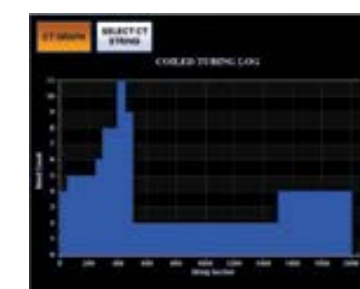
- One user life time, run time license
- Requires MobileDAS XDC hardware
- On screen radial gauges for oil pressure, oil temperature, transmission temperature, voltage, engine RPM, coolant temperature
- On screen controls for transmission shifting, instant neutral, start/stop engine, throttle control, throttle override
- On screen indicator lights for check engine, check transmission, stop engine
- On screen engine & transmission fault codes with history



CTL (Coiled Tubing Logger) Module

This counts pipe cycles over the injector by section. Module includes:

- One user life time, run time license
- Supports Falcon or Eagle Software
- Local string file management
- Configurable pressure and fluid factors
- Automatic job report PDF generation w/company embedded logo



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PANEL PC'S

10.4" Panel PC

- Operates Falcon X6 Software.
- Dual core Intel Pineview D525, 1.8GHz, 3GB DDR2, 32GB MLC 2.5" SSD
 - Ports: VGA (x1), USB 2.0 (x4), Ethernet (x1)
 - 800x600 resolution, 500 nits, WiFi 802.11 b/g/n
 - DC input power: +6V~+32V with Military connector
 - Aluminum chassis w/ VESA 100 mounts, 32GB MLC 2.5" SSD
 - Cellular module: Novatel E396 + 3G SiMM carrier
 - Includes Windows 7 Embedded Standard license
 - Also available in a 1000 NITS (high brightness) external mount option



21" Panel PC

- Operates Eagle X2 or Condor X2 software.
- Full HD 1920 x 1080 resolution
 - Intel i5 CPU 2GHz/4GB DDR2 RAM, WiFi 802.11 b/g/n, 5W SPK
 - DC input power: +6V~+32V with Military connector
 - Aluminum chassis, 64GB MLC 2.5" SSD
 - Cellular module: Novatel E396 + 3G SiMM carrier
 - Includes Windows 7 Embedded Standard license
 - Also available in a 1000 NITS (high brightness) external mount option



Each panel PC comes 3G Mobile Ready for instant data access. Used for Remote Support, Team Viewer add on and Emailing completed job reports.

SENSORS

Pressure



Available Ranges:
0-200psi, 0-250psi, 0-300psi, 0-500psi,
0-1000psi, 0-5000psi & 0-10,000psi



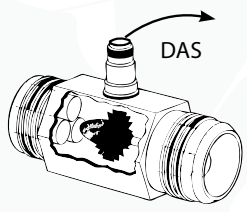
Available Ranges:
0-10,000psi, 0-15,000psi, 0-20,000 psi,
0-30,000psi, 0-40,000psi



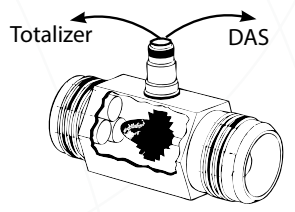
Available Ranges:
0-10,000psi, 0-15,000psi & 0-20,000 psi

All sensors are available in high (0.01%) accuracy and temperature compensated (-40 degree) options

Flow



Option 1
Flow Turbine to DAS only



Option 2
Split Signal to BOTH DAS
and Flow Totalizer.



Option 3
Stroke Counter to DAS Only

Various Flange and Bore Sizes Available

Cables and Connectors

All cables and connectors are designed to meet and exceed the demands of the Oil & Gas Industry.



Additional Options

- Wireless Pressure and Flow Sensors
- Cable Reels and Class 1/Div 1 sensors for monitoring Tubing or Annulus Pressure
- Temperature Sensors for Fluid Temperature
- Programmable Relay Alarms and Devices
- Tank Level Software Integration (must use Titan Logix Gauges)



Toll Free: 1.855.962.2825 • Technical Support: 1.780.962.2877

Head Office

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Acheson, AB T7X-5A4

US Office

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The Woodlands, TX 77380

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CONDOR-X2

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Overview

CONDOR software was designed for multi-screen applications. Each 1920 x 1080 screen can display up to 12 sensors and 3 independent real-time graphs. Each graph and digital display box can be dynamically configured to match the operators preferred dashboard.

Key Features

- Dynamic digital box channel configuration
- Real-time graph with zoom, strip chart mode and event markers for job log
- Auto-record so data is never lost
- [Powerful reporting generated on the spot for quick USB and/or email transfer](https://web.archive.org/web/20150914202746/http://www.mobiledatatech.com/wp-content/uploads/2015/03/29SensorSetup.png)
 - [Job History Overview](https://web.archive.org/web/20150914202746/http://www.mobiledatatech.com/wp-content/uploads/2015/03/14JobHistoryOverview.png)
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 - [Sensor Selection](https://web.archive.org/web/20150914202746/http://www.mobiledatatech.com/wp-content/uploads/2015/03/8SensorSelection.png)
 - [Min Monitor With Graph Values](https://web.archive.org/web/20150914202746/http://www.mobiledatatech.com/wp-content/uploads/2015/03/7MinMonitorWithGraphValues.png)

Software Specifications

-
- Supports up to four monitors 1920x1080 resolution in Day & Night Modes
 - Automatic job report PDF generation w/company embedded logo
 - Real-time monitoring with single graph and three digital sensor displays or up to six digital sensor displays without a graph
 - On graph event tracking
 - Strip charting mode
 - Graph zooming function
 - Up to 4 additional custom graphs per job
 - Integrated company database
 - Integrated job history database
 - CSV file output
 - Configurable record intervals & test duration
 - Built in email for job reports
 - Built in remote support utility

- Built in visual alarms (low, low-low, high & high-high)
- Built in test/fail lines
- Relay safety shutdown capable (additional hardware required)

RELATED PRODUCTS

mDATAVAN

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Tech Support: +1.855.638.6384

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CONNECTORS

Connectors

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Cable connector, 2 pin military plug female

CC-2MPF

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Panel mount connector

Panel mount connector Ethernet Bayonet receptacle female

[More Information](#)



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0 item(s) in your quote book.



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Username:

Password:

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CAREERS

Inside Sales Representative

Based in: Acheson Industrial
Park (Edmonton, Canada Area)

Job Description Become a key contact with a professional presence to help build our brand. Preparation of all quotations for outside sales reps &nbs...

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PRODUCTS



MobileDAS LT™ MobileDAS LT™

Overview Mobile Data Technologies is proud to introduce the MobileDAS LT as the new entry level data acquisition sy...

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DATA VAN

Data Van

Products in "Data Van"



MobileDVS™

Overview The MobileDVS is the newest addition to the MDT product line-up. Based on a multi screen platform, this system utilizes the same principles of our 1st generation touch screen interface. This Data Van System can collect data from even the most complex frac jobs. The architecture is designed to record multiple data points for blenders, hydrations units, chemical units, manifolds, remote wellhead sensors and even up to 30+ frac pumps! With the ability to transmit data wirelessly or hardwired, the MobileDVS is widely versatile. ...

[More Information](#)



MobileDAS XD

Information soon to come

[More Information](#)



MobileDAS XDC

Information soon to come

[More Information](#)



CAREERS

Inside Sales Representative

Based in: Acheson Industrial Park (Edmonton, Canada Area)
Job Description Become a key contact with a professional presence to help build our brand. Preparation of all quotations for outside sales reps &nbs...

[Read More](#)



MobileDAS EXDC

Information soon to come

[More Information](#)



PRODUCTS



MobileDAS LT™ MobileDAS LT™

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DATA VAN

Data Van

Products in "Data Van"



MobileDVS™

Overview The MobileDVS is the newest addition to the MDT product line-up. Based on a multi screen platform, this system utilizes the same principles of our 1st generation touch screen interface. This Data Van System can collect data from even the most complex frac jobs. The architecture is designed to record multiple data points for blenders, hydrations units, chemical units, manifolds, remote wellhead sensors and even up to 30+ frac pumpers! With the ability to transmit data wirelessly or hardwired, the MobileDVS is widely versatile. ...

[More Information](#)



CAREERS

Inside Sales Representative

Based in: Acheson Industrial Park (Edmonton, Canada Area)
Job Description Become a key contact with a professional presence to help build our brand. Preparation of all quotations for outside sales reps &nb...

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PRODUCTS



10.4 inch Touch Screen EXTREME

IP65 rating, built in heater module, rated for use in down to -40°

10.4 inch Touch Screen IP65 rating built in heater module minus 40 c

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EAGLE-X2

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Overview

EAGLE software was designed to take advantage of full HD 1920 x 1080 displays. This expanded dashboard provides the operator with an even more versatile view of up to 12 sensors and 3 independent real-time graphs. Each graph and digital display box can be dynamically configured to match the operators preferred dashboard.

Key Features

- Dynamic digital box channel configuration
- Real-time graph with zoom, strip chart mode and event markers for job log
- Auto-record so data is never lost
- Powerful reporting generated on the spot for quick USB and/or email transfer
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 - (<https://web.archive.org/web/20150417155453/http://www.mobiledatatech.com/wp-content/uploads/2015/03/29SensorSetup.png>)

Software Specifications

-
- Supports single monitor 1920x1080 resolution in Day & Night Modes
 - Automatic job report PDF generation w/company embedded logo
 - Real-time monitoring with single graph and three digital sensor displays or up to six digital sensor displays without a graph
 - On graph event tracking
 - Strip charting mode
 - Graph zooming function
 - Up to 4 additional custom graphs per job
 - Integrated company database
 - Integrated job history database
 - CSV file output
 - Configurable record intervals & test duration
 - Built in email for job reports
 - Built in remote support utility
 - Built in visual alarms (low, low-low, high & high-high)
 - Built in test/fail lines
 - Relay safety shutdown capable (additional hardware required)

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FALCON-X6

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Overview

FALCON software was designed with ease of use and simplicity in mind. Depending on what the operator wants to see the main dashboard view can be toggled to display up to 6 sensors or 2 sensors and a real-time graph. Pairing this easy to use interface with auto-record and one click PDF job report creation makes FALCON a must have for many service truck applications.

Key Features

- Dynamic digital box channel configuration
- Real-time graph with zoom, strip chart mode and event markers for job log
- Auto-record so data is never lost
- [Powerful reporting generated on the spot for quick USB and/or email transfer](https://web.archive.org/web/20151013205503/http://www.mobiledatatech.com/wp-content/uploads/2015/03/Main-10SecStrip-G2.jpg)
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Software Specifications

-
- Supports single monitor 800x600 resolution in Day & Night Modes
 - Automatic job report PDF generation w/company embedded logo
 - Real-time monitoring with single graph and two digital sensor displays or up to six digital sensor displays without a graph
 - On graph event tracking
 - Strip charting mode
 - Graph zooming function
 - Up to 4 additional custom graphs per job
 - Integrated company database
 - Integrated job history database
 - CSV file output
 - Configurable record intervals & test duration
 - Built in email for job reports
 - Built in remote support utility

- Built in visual alarms (low, low-low, high & high-high)
- Built in test/fail lines
- Relay safety shutdown capable (additional hardware required)

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HAWK-X1

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Overview

HAWK software was designed with ease of use and simplicity in mind. Depending on what the operator wants to see the main dashboard view can be toggled to display up to 9 sensors or 3 sensors and a real-time graph. Pairing this easy to use interface with auto-record and one click PDF job report creation makes HAWK a must have for many service truck applications.

Key Features

- Dynamic digital box channel configuration
- Real-time graph with zoom, strip chart mode and event markers for job log
- Auto-record so data is never lost
- [Powerful reporting generated on the spot for quick USB and/or email transfer](https://web.archive.org/web/20150919141508/http://www.mobiledatatech.com/wp-content/uploads/2015/03/Hawk-Monitor.jpg)
- [Powerful reporting generated on the spot for quick USB and/or email transfer](https://web.archive.org/web/20150919141508/http://www.mobiledatatech.com/wp-content/uploads/2015/03/Hawk-3G.jpg)
- [Powerful reporting generated on the spot for quick USB and/or email transfer](https://web.archive.org/web/20150919141508/http://www.mobiledatatech.com/wp-content/uploads/2015/03/Hawk-9.jpg)

Software Specifications

-
- Supports single monitor 1024x768 resolution in Day & Night Modes
 - Automatic job report PDF generation w/company embedded logo
 - Real-time monitoring with single graph and three digital sensor displays or up to six digital sensor displays without a graph
 - On graph event tracking
 - Strip charting mode
 - Graph zooming function
 - Up to 4 additional custom graphs per job
 - Integrated company database
 - Integrated job history database
 - CSV file output
 - Configurable record intervals & test duration
 - Built in email for job reports
 - Built in remote support utility
 - Built in visual alarms (low, low-low, high & high-high)
 - Built in test/fail lines
 - Relay safety shutdown capable (additional hardware required)

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mDAS

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Overview

The mDAS has been Mobile Data Technologies' flagship product since 2008. Primarily used on service trucks in the Oil & Gas industry. With proven industrial hardware and well thought out architecture, this system is simple to use and widely versatile.

Key Features

- Real time monitoring and recording of analog (pressure, temperature, tank level, density, etc.) or frequency (flow rate/total) signals
- Safety relay capable eg. High Pressure Shutdown, Audio Alarm, etc. (additional hardware required)
- Ability to expand total I/O count with available add on modules
- [Optional wireless capabilities for remote technical support - 24/7/365](https://web.archive.org/web/20150910090326/http://www.mobiledatatech.com/wp-content/uploads/2015/04/mDAS-1080x1319-P1.png)
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System Specifications

- 8 ch analog (2 Intrinsically Safe) input module (4-20 mA)
- 2 ch high speed counter input module (4.5kHz)
- 4 ch relay output module w/switches, rated at 10A
- Junction box dimensions (14"x12"x6")

System Requirements

Power input

- 12VDC, 10A (24VDC option available).
- Main power supply must not exceed +/- 10% of the nominal voltage
- Ignition or switch signal (cable supplied)
- Must be mounted in a weather proof area.

Storage / Operating Limits

Storage temperature

-40°C to 70°C (-40°F to 158°F)

Operating temperature

-10 °C to 45°C (14°F to 113°F)

RELATED PRODUCTS

HAWK-X1

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FALCON-X6

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EAGLE-X2

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SYSTEMS

Systems**Products in "Systems"**

MobileDAS™

Overview The MobileDAS has been MDT's flagship product since 2008. To date, MobileDAS sales has made up over 60% of our business. Primarily used on service trucks in the Oil & Gas industry, we have recently supplied a system to be installed on a Screw Pile Excavator to measure screw pile depth and torque. With proven industrial hardware and well thought our architecture, this system is simple to use and widely versatile. Key Features Industrial touch screen PC with simple, easy to use interface Includes 8 channel analog module (2 c...

[More Information](#)

MobilePTS™

Overview The MobilePTS is MDT's most versatile product. This self contained "suitcase style" package can be packed up and taken anywhere. Easy sensor set-up allows the operator to monitor or record sensors for pressure, temperature, flow (counter module required), etc. MDT is currently field testing a system to measure tube tong torque. This rugged package paired with our simple to use interface makes this system as must have for portable data acquisition. Key Features Rugged 'suitcase style'...

[More Information](#)

MobileDRS™

Overview The MobileDRS is the all-in-one solution for in shop testing. It's bench top design makes it easy to use for most test facilities. The MobileDRS was featured in the February 2011 issue of the Oil & Gas Network magazine with a Trican friction reduction unit. MDT offers custom programming for "recipe" stage testing and also allows the customer to save their job reports to a remote server on their network. With a touch screen interface, easy PDF report generation and email capabilities, the MobileDRS is a must have for in shop data...

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PRODUCTS



MobileDAS LT™ MobileDAS LT™

Overview Mobile Data Technologies is proud to introduce the MobileDAS LT as the new entry level data acquisition sy...

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MobileDVS™

Overview The MobileDVS is the newest addition to the MDT product line-up. Based on a multi screen platform, this system utilizes the same principles of our 1st generation touch screen interface. This Data Van System can collect data from even the most complex frac jobs. The architecture is designed to record multiple data points for blenders, hydrations units, chemical units, manifolds, remote wellhead sensors and even up to 30+ frac pumpers! With the ability to transmit data wirelessly or hardwired, the MobileDVS is widely versatile. ...

[More Information](#)



MobileDAS LT™

Overview Mobile Data Technologies is proud to introduce the MobileDAS LT as the new entry level data acquisition system for service trucks in the oil and gas industry. With proven industrial hardware and a well thought out architecture, this system is simple to use and widely versatile. Key Features Completely self contained, no separate junction box. Industrial touch screen PC with a simple, easy to use interface Real time monitoring or recording of pressure, temperature, flow, tank level & other sensors PDF report...

[More Information](#)



MobileELT

Information soon to come

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MobileDAS XD

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MobileDAS XDC

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MobileDAS EXDC

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mFPC

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Overview

mFPC is MDT's industry leading Frac Pump Controller designed from the ground up to be the most robust controller on the market. At the core of this "PC-less" product is a German made controller (STW) that has an average mean-time-between-failure (MTBF) of over 50 years

(<https://web.archive.org/web/20150805104516/http://www.stw-technic.com/industries/oil-and-gas/>)!

This product has been through rigorous testing for vibration and temperature. Check out our YouTube

(https://web.archive.org/web/20150805104516/https://www.youtube.com/channel/UcKSiGEnodLMT_OtYc_h9a4A) channel to see videos of the punishment we've put our mFPC through!

Key Features

- Weather proof, stainless steel NEMA enclosure
- STW Industrial Programmable Automation Controller (50 year MTBF, IP69X, single 81 pin industrial anti-vibration connector)
- Local physical controls for ignition, engine start, instant neutral, transmission shift, throttle & E-Kill
- Local status lights for power/fuse, power supply, stop engine, check engine, transmission fault, PE fault and control status
- Remote control capable from LION-X1 (single pump control) or PRIDE-X1 (multi-pump control)
- I/O cards soldered to main controller reducing failures due to vibration
- 4.3" sunlight readable (1000 NITS) color display, acrylic high scratch resistant screen cover, illuminated soft keys for display mode
- Vibration tested to MIL-STD-810G standard
- Temperature tested to SAE J1455 standard
 - (<https://web.archive.org/web/20150805104516/http://www.mobiledatatech.com/wp-content/uploads/2015/03/mFPC-845x804-P7.jpg>)
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System Specifications

Standard I/O includes (sensors not included):

- Discharge pressure
- Flow rate/total
- Suction pressure
- Hydraulic temperature
- Power end lube pressure
- Power end lube temp
- Fuel level
- Air pressure
- Air filter indicator switch 1
- Air filter indicator switch 2
- Engine oil temperature
- Power end lube bypass
- Rig saver position left
- Rig saver position right
- Fan speed
- Integrated greaser control
- Data acquisition archiving
- J1939 Diagnostics port
- 2x Ethernet communication ports, RJ45 bayonet (datavan, remote control)

System Requirements

Power input: 24VDC

Main power supply must not exceed +/- 10% of the nominal voltage

Storage / Operating Limits

Storage temperature

-40°C to 80°C (-40°F to 176°F)

Operating temperature

-40 °C to 70°C (-40°F to 158°F)

RELATED PRODUCTS

LION-X1

(https://web.archive.org/web/20150805104516/http://www.mobiledatatech.com/mdt_product/lion-x1/)

PRIDE-X1

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TWITTER FEED

Just finished the Costco run. Big plans for the shop expansion.

Sunday November 6, 2011

Mobile Data Technologies is currently Hiring. Check out our career page!!

<http://t.co/5hxnQRO>

Wednesday November 2, 2011

We would like to welcome Joseph Basco to the production team!!

Wednesday November 2, 2011

Who wants to work overtime ?? I DO!

Wednesday November 2, 2011

Sales enjoying the after hour trade show events !! Happy Halloween!!

<http://t.co/j2YbdOzC>

Sunday October 30, 2011

FEATURED PRODUCT



10.4 inch Touch Screen EXTREME
IP65 rating, built in heater
module, rated for use in down
to -40°

10.4 inch Touch Screen IP65
rating built in heater module
minus 40 c

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How many Trade Shows do you
visit a year?

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☐ None

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MobileDAS™



MobilePTS™



MobileDRS™



MobileDVS™



MobileDAS LT™

• Applications

- Acid Pumper
- Cementer
- Blender
- CO2 Pumper
- Coil Tubing Units
- Combination Unit
- Frac Pumper
- Hydration Unit
- Nitrogen Pumper
- Hot Oiler
- Pressure Truck
- Data Van
- Portable
- Shop
- Screw Pile
- Soap Truck

• Accessories

- Sensors
- Connectors
- Touch Screens
- USB Memory
- GPS
- Cellular Connectivity
- Cables
- Wireless
- Brackets
- Cases





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 - Nitrogen Pumper
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Name Alias: : MobileDAS EXDC

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Details

Specifications

Media

Applications

Overview

With increasing demand in the marketplace, MDT is proud to announce the launch of the MobileDAS EXDC Data Acquisition and Control System. Designed primarily for the use with Frac Pumps, the MobileDAS EXDC is a very versatile product that can be used in any single engine, single transmission controls application. With the most robust hardware available on the market, a simplified user interface and an unparalleled support model, the MobileDAS EXDC is a must have for any frac spread!

Key Features

- Redundant analog controls built in to run “headless” in event of failure
- Remotely controlled from Datavan/Command Center for multi pump applications
- Real time monitoring and recording of all sensors including engine/transmission fault codes from ECM and TCM.
- “Black Box” tracking of operator acknowledgement of critical alarms from engine or transmission for enhanced operator accountability
- Safety relay switches built in eg. High Pressure Shutdown, Audio Alarm, etc.
- Built in cell and Wi-Fi modules for easy 24/7/365 technical support
- Ability to email job reports directly from system

Software Options



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MobileDAS LT™ MobileDAS LT™

Overview Mobile Data Technologies is proud to introduce the MobileDAS LT as the new entry level data acquisition sy...

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10.4 inch Touch Screen IP65
rating built in heater module
minus 40 c

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Overview

Mobile Data Technologies is proud to introduce the MobileDAS LT as the new entry level data acquisition system for service trucks in the oil and gas industry. With proven industrial hardware and a well thought out architecture, this system is simple to use and widely versatile.

Key Features

- Completely self contained, no separate junction box.
- Industrial touch screen PC with a simple, easy to use interface
- Real time monitoring or recording of pressure, temperature, flow, tank level & other sensors
- PDF reports of all jobs saved on the hard drive and easily transferred to a USB stick to be passed on to the client at the site
- Optional wireless automatic job data transfer and emailing direct from truck
- Wireless remote support world wide with an internet connection
- Includes 2 channel analog and 1 channel counter module
- Can support wireless wellhead sensors (base radio module required)





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MobileDAS XDC

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Overview

The MobileDAS XDC is a stainless steel enclosure housing a STW controller used to operate the Engine Transmission Control Module (ETCM) for a multitude of oilfield equipment.

Key Features

- Redundant analog controls built in to run “headless” in event of failure
- Easy switch auto/manual control for liquid adds, dry adds, tub speed/level, augers
- Multi-stage pre-job configuration
- Real time monitoring and recording of all sensors including engine fault codes from ECM
- “Black Box” tracking of operator acknowledgement of critical alarms from engine for enhanced operator accountability
- Built in cell and Wi-Fi modules for easy 24/7/365 technical support

Software Options

- Falcon
- Eagle

MobileDAS ELT
MobileDAS ELT

System Specifications 10.4"
Industrial Touch Panel PC
w/solid state drive ...

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- Engine Transmission and Control Module (ETCM)





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Applications

Overview

The MobileDAS XDC is a stainless steel enclosure housing a STW controller used to operate the Engine Transmission Control Module (ETCM) for a multitude of oilfield equipment.

Key Features

- Weather proof, stainless steel data hub junction box (30" x 24" x 10")
- Built in heaters
- Real time monitoring and recording of analog (pressure, temperature, tank level, density, etc.) or frequency (flow rate/total) signals
- Digital input and digital output capabilities
- Built in safety relay capabilities eg. High Pressure Shutdown etc. (additional hardware required)
- Ability to expand total I/O count with expansion modules
- Built in cell module (requires cell dataplan subscription)
- Built in wireless capabilities for remote technical support - 24/7/365

Software Options

- Falcon
- Eagle



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- Engine Transmission and Control Module (ETCM)



MobileDAS™

POWER / FUSE POWER SUPPLY

RELAY 1 RELAY 2 RELAY 3 RELAY 4

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The Wayback Machine - <https://web.archive.org/web/20131228024515/http://mobiledatatech.ca/assets/images/slideshow/70...>

A side-profile photograph of a white and blue tanker truck parked in front of a large industrial building. The truck has a large white cylindrical tank with blue accents and a blue diamond-shaped logo. The text "MobileDAS" is prominently displayed in a large, white, italicized font at the top left of the image. Below the truck, the text "Pressure, Flow, Temperature, Tank Level;" is written in a smaller, italicized font. At the bottom left, there is an orange button with the text "LEARN MORE" in white. To the right of the button, the phrase "Record it ALL!" is written in a large, italicized font with orange quotation marks.

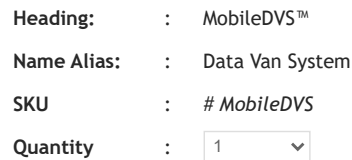
MobileDAS

Pressure, Flow, Temperature, Tank Level;

[LEARN MORE](#) "Record it ALL!"

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Applications

The MobileDVS is the newest addition to the MDT product line-up. Based on a multi screen platform, this system utilizes the same principles of our 1st generation touch screen interface. This Data Van System can collect data from even the most complex frac jobs. The architecture is designed to record multiple data points for blenders, hydrations units, chemical units, manifolds, remote wellhead sensors and even up to 30+ frac pumpers! With the ability to transmit data wirelessly or hardwired, the MobileDVS is widely versatile.

- Multi screen design with optional touch screen interface
- Configure your layout by easily choosing 1-3 graphs and 1-12 sensor readings per monitor
- Advanced graphing features include:
 - Toggle your graph view to show the complete job history or stripe chart style to show last ten minutes
 - Add notes/markers to specific points during the job
 - Quick zoom feature for enhanced detail
 - Enable test or fail lines for quick at-a-glance job specific limits
- Real-time communication monitoring for all remote units on the MDT Mesh Network
- Data output options for Meyers or Fracpro software
- Optional relay outputs for safety limits
- PDF report generation of all jobs saved on the hard drive and easily transferred to a USB stick.
- Email capable (requires internet connection))
- Printer capable
- Built in on-line remote support direct to a live technician (requires internet connection)



PRODUCTS



MobileDAS LT™ MobileDAS LT™

Overview Mobile Data Technologies is proud to introduce the MobileDAS LT as the new entry level data acquisition sy...

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- Software options include:
 - Field Invoicing Module

Easy Sensor Set-up

- Built in visual alarms (high, high-high or low, low-low) configurable for each sensor
- Calibrate sensor displays



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MobileFPC

Frac Pump Controller

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Name Alias: : Frac Pump Controller

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Quantity : 1

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Overview

This new controller really simplifies how frac spreads are run in the field. This “PC-less” design minimizes the potential points of failure on typical frac pump controllers and greatly reduces down time by increasing reliability. With a price point that can’t be beat in the industry, the MobileFPC is a must have on any frac spread or pump down unit!

Key Features

- Logic can be updated remotely through internet connection, no need to send tech to site (requires datavan internet connection or M2C module)
- Local physical controls for ignition, engine start, instant neutral, transmission shift, throttle & E-Kill
- Local status lights for power/fuse, power supply, stop engine, check engine & transmission fault
- M2C - Machine-to-Cloud WiFi/Cellular/GPS module capable (additional hardware required)

Remote Control Capable

- High Definition Multi-Pump Control (MPC) can be done remotely from a datavan with any combination of MPC5, MPC10 or MPC20 to cover all spread configurations
- Single pump enhanced details and control on separate screen to allow operators full flexibility
- Multi-Pump Control includes group control for gear and throttle control w/master group instant neutral and master group E-Kill
- Real time pressure and rpm bar gauges for quick pump to pump comparison
- Auto registration and configuration mesh network to allow ease of bringing pumps on and taking pumps off line that’s unparalleled by any other PLC controller (no manual IP configuration)

Overview With increasing demand in the marketplace, MDT is proud to announce the launch of the MobileDAS EXDC D...

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required)

- Dynamic (auto adjusting) flow rates and totals when additional pumps brought on line (or taken off)Logic can be updated remotely through internet connection, no need to send tech to site (requires datavan internet connection or M2C module)

Robust Hardware

- STW controller boasts a 28 year MTBF (mean time between failure)
- I/O cards soldered to main controller reducing failures due to vibration
- Sunlight w (1000 NITS), acrylic high scratch resistant color display
- Internal single 81 pin anti-vibration off-highway locking controller connector
- Internal communication backbone uses vibration resistant connectors with over molded cable ends (no screw terminals)
- Anti-vibration Amphenol 1/4 turn I/O connectors
- Built in universal power supply (UPS) for sequence shut downHigh Definition Multi-Pump Control (MPC) can be done remotely from a datavan with any combination of MPC5, MPC10 or MPC20 to cover all spread configurations



The Wayback Machine - <https://web.archive.org/web/20131228025029/http://mobiledatatech.ca/assets/images/slideshow/10...>





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MONITORING

AND RECORDING CAPABILITIES

Monitoring and Recording capabilities

FAQ #: 4

FAQ rating: 0 out of 5.0

of votes: 0

Date created: Monday May 2, 2011 2:19 PM

Category: [MobileDVS](#)

Question:

How many units can the MobileDVS monitor/record at one time?

Answer:

The MobileDVS can monitor and record up to a maximum of 40 individual units at one time over our [Advance MDT Mesh Network](#).

COMMENTS

Are these connections wired or wireless?

Posted by [Anonymous](#) Monday December 19, 2011 6:00 AM

The MobileDVS can have 40 connections maximum, each of wich can be wired, wireless or both.

Posted by [Jeremy Koskewich](#) Monday May 2, 2011 2:24 PM

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mXDJ

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Overview

mXDJ is MDT's rugged outdoor data acquisition system with CAN bus inputs to communicate with engines and transmissions via J1939 for fault code tracking. At the core of this product is a German made controller (STW) that has an average mean-time-between-failure (MTBF) of over 50 years

(<http://www.stw-technik.com/industries/oil-and-gas/>)!

Key Features

- Weather proof, stainless steel NEMA enclosure (24"x24"x8")
- STW Industrial Programmable Automation Controller (50 year MTBF, IP69X, single 81 pin industrial anti-vibration connector)
- Local physical controls for ignition, engine start, instant neutral, transmission shift, throttle & E-Kill

System Specifications

-
- 4x 4-20mA Analog input channels (2 IS)
 - 12x Multi-function input channels (analog or frequency)
 - 2x Encoder channels
 - 6x Relay outputs, 2 amp (accessed through multi conductor cable)
 - 15x Multi-function inputs (accessed through multi conductor cable)
 - 2x Deutsch connectors for two engines (CAN/J1939 Network)
 - 1x Ethernet Bayonet RJ45 connector
 - 3x 6 Pin bayonet connectors for Ethernet communication
 - 1x Military connector for power in (24VDC)
 - 2x Military connector for power out for modules (24VDC)
 - 1x Uninterrupted Power Supply for 24V system
 - Intelligent power controller (24VDC Input ONLY)

System Requirements

Power input

- 24VDC, 10A
- Main power supply must not exceed +/- 10% of the nominal voltage
- Ignition or switch signal (cable supplied)

Storage / Operating Limits

Storage temperature
-40°C to 70°C (-40°F to 158°F)
Operating temperature
-40 °C to 45°C (-40°F to 113°F)

RELATED PRODUCTS

HAWK-X1

(https://web.archive.org/web/20150916055224/http://www.mobiledatatech.com/mdt_product/hawk-x1/)

FALCON-X6

(https://web.archive.org/web/20150916055224/http://www.mobiledatatech.com/mdt_product/falcon-x6/)

EAGLE-X2

(https://web.archive.org/web/20150916055224/http://www.mobiledatatech.com/mdt_product/eagle-x2/)

MEDCO

(https://web.archive.org/web/20150916055224/http://www.mobiledatatech.com/mdt_product/medco/)



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USA, 77042

Toll Free: +1.855.962.2825

Tech Support: +1.855.638.6384

Acheson, Alberta

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Acheson, Alberta
Canada, T7X 5A4

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30
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Amplified Magnetic Pick-Up

Amplified magnetic pick-up

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Flow Amplifier - Splitter

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Proximity 0-700 Hz

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Turbine - 1 inch MNPT, 5 to 50 GPM

Turbine - 1" MNPT, 5 to 50 GPM (18.9 to 189.3 LPM), 5000 PSI Max

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Turbine - 1.5 Inch MNPT, 15 to 180 GPM

Flow Turbine - 1.5" MNPT, 15 to 180 GPM (57 to 681 LPM), 5000 PSI Max

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☐ 10,000 psi M12

10,000 psi w/certificate of calibration

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10,000 psi 6-pin

Pressure, 10,000 psi Intrinsically Safe (*requires barrier), w/certificate of calibration

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1,000 psi M12

P-1K-C-04MNPT-M12

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40,000 psi M12

P-40K-C-F250C-M12

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500 psi M12

P-500-C-04MNPT-M12

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5,000 psi M12



P-5K-C-04MNPT-M12

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Zener diode separator

Zener diode separator

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Tank level software integration

Tank level software integration (Requires Titan TD80 w/4-20mA wiring)

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Accutech Wireless Pressure Sensor

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