CAN Line:
MOTOCANDIS

MOTOCANDIS is a display unit that evaluates the digital data of a modern motor management system (or other management systems with a CAN interface) directly.

The MOTOCANDIS is designed for an operating voltage between 9 and 32 volts and thus offers a wide range of application, from construction equipment or service vehicles of all types in municipal or agricultural sectors to stationary motors or operating machines.

Up to two video cameras can be directly connected and the

images displayed simultaneously or separately with other information on the high resolution colour monitor.
Flexible in installation and individually programmable, MOTOCANDIS offers significantly more options than conventional display systems.

CAN Line: MOTOCANDIS

Features of MOTOCANDIS

- rugged housing, designed to withstand the special requirements of harsh operating environments (e.g. temperature, moisture, vibrations, EMC influences)
- 2 CAN-inputs, 2 video inputs
- controlled by a microprocessor
- simple and convenient to configure over Windows-compatible PC software
- 6 illuminated, freely configurable keys
- language setting
- dial to operate the menu and reference value inputs

The Display

- 6,5" VGA display
- resolution of 640 x 480 pixels for highly detailed images
- low-reflecting glass
- can be rotated in 90-degree-steps
- day and night switching-on possible
- internal graphics processor provides fluent display of analogue instruments (without jerky pointer motion)
- can be configured completely independently
- all existing data can be represented in any conceivable format (from classic round instruments to bar graphs, rows of text, or even control lights)

Real-time clock

The function of a real-time clock is integrated in the central instrument and buffered against interruptions in the power supply.

CAN-Interfaces

Over the 2 independent CAN-interfaces (2.0B), receiving of data, information, and error messages is possible as well as entering analogue measuring data or parametering data on the CAN bus. Furthermore, data can be conducted from CAN-Bus 1 to CAN-Bus 2.

The Software

- WINDOWS-compatible software, easy to configure
- no programming knowledge necessary (user-friendly interface, simple handling via mouse click)
- individual displays possible due to free programmability (classic round display, bar chart, text, digital values, etc.)
- a database with graphical elements makes page set up very easy (integration of specific bitmaps or logos possible)
- Font system
- camera images can be displayed in full-screen or picture-in-picture format, either on a continuously or event-driven basis

Mechanical features

- Plastic housing: 203 x 162 x 75 mm
- Installation: Integrated or as add-on
- Central connection: 1 x "Deutsch" DT15-12P

Electrical specifications

Supply voltage (Ub):	9 - 32 V

CAN Line: MOTOCANDIS

Protection against polarity reversal of the power supply connections

Overvoltage:	36 V / 1 h at 40 °C ambient temperature
Test voltage:	13.6 V / 27.6 V
Nominal voltage:	12 V / 24 V
CAN-Interfaces:	2xCAN2.0B max.1Mbit/s short-circuit protected against +Ub and GND
ESD resistance CAN:	4 - 8 kV

Inputs short-circuit protected against ± Ub and other inputs of electrical connections overvoltage-protected
CE compliant

Proof of EMC compliance based on the following standards

DIN 40839
EN 13309

Proof of operating safety based on the following standards

DIN EN-500-1
DIN EN 500-4
DIN EN 60204-1

Environmental specifications

Operating temperature:	-30 °C to +85 °C
Storage temperature:	-40 °C to +90 °C
Shock resistance:	Falling (with packaging) from 1 m height on front of display
Vibration resistance:	5 g at 30 Hz to 50 Hz (endurance) in all 3 directions in space
Climatic resistance:	DIN 50016
Tropical resistance:	DIN EN 60068-2-30

Resistant to oils, hydraulic fluids, greases, and fuels as well as all currently used bio-oils and bio-fuels.
Lasting form, position and age stability against high UV radiation.