

EC - MMS - 1012 - H

Machine management system

Description

Digital MMS (Machine Management System) with built-in advanced safety and fault detection features for integrated control of Mobile Equipment functions.

Operation

10 inputs and 12 outputs are managed by this small-size unit.

PWM current outputs are field-adjustable and their setting is stored in a EEPROM memory. Parameters can be loaded via software from a standard PC connected with a RS232 serial line.

It is normally used as a stand-alone controller for max 5 functions meter-in systems (1 proportional valve and 10 on/off valves)

Features

- Supply line is protected against reversed polarity and load dump.
- Inputs are protected against short circuits to GND and supply.
- Outputs are protected against short circuits, reversed polarity, over-current and over-temperature.
- 3-wires RS232 serial interface.



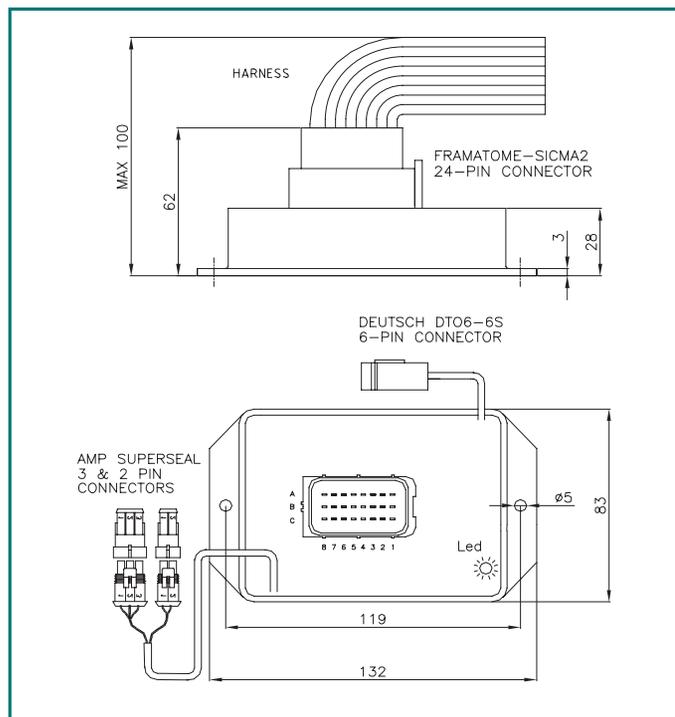
Specifications

- Operating voltage: 9 - 30 Vdc
- Max current consumption: 100 mA (no load applied)
- Operating temperature: -25 / +85 °C
- Degree of protection: IP 67
- Analog inputs: 8 x 0-5 V
- Input impedance: 100 kOhm
- Typical ctrl pot resistance: 1 - 10 kOhm
- Digital inputs: 2
- Resolution: 10 bit
- Highside power outputs: 11 (3.5A max each)
- PWM outputs channels: 1 x single-coil prop. valves
- Current output range (PWM): 100 - 1500 mA
- PWM dither frequency: 75 - 250 Hz

Applications

- 12 Vdc and 24 Vdc systems
- Remote control of non-feedback proportional and on/off valves
- Specifically designed for applications requiring accurate adjustments and calibrations
- Control of proportional bi-directional valves with a venting valve

Dimensions

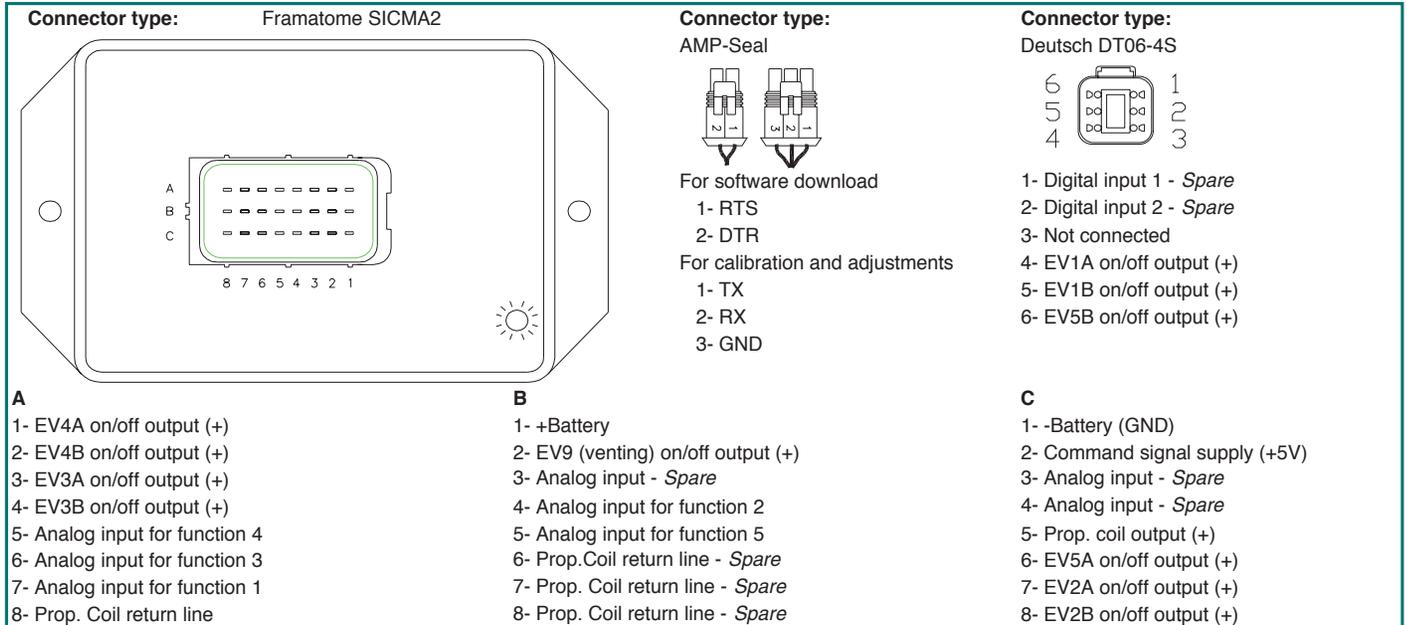


WARNING: The specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

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Circuit board pinout - Wiring diagram

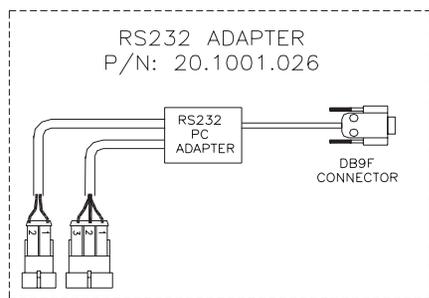


Adjustments

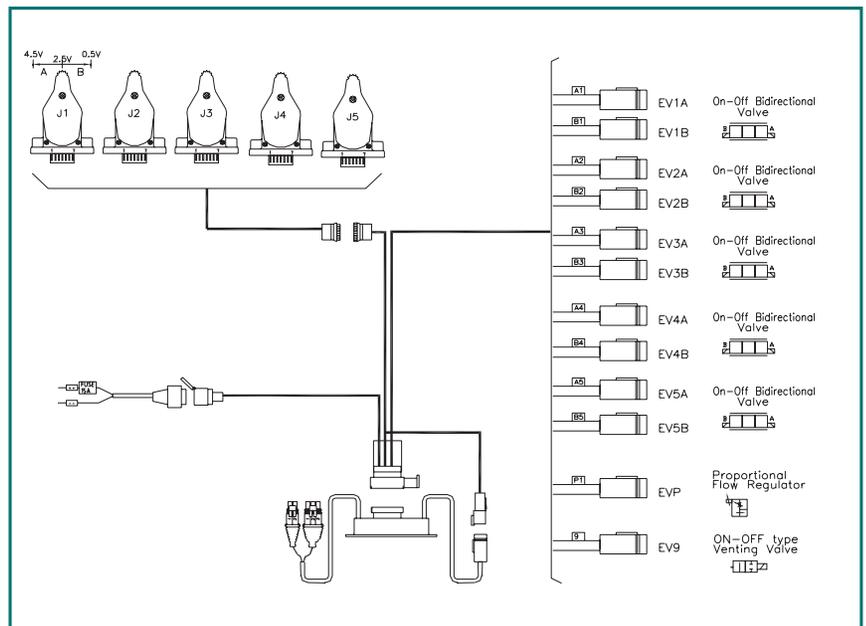
Adjustment can be effected via RS232 serial line to modify the following work parameters:

- Imin (minimum output current)
- Imax (maximum output current)
- Ramp-up time
- Ramp-down time
- Dither frequency

Ordering information for the configuration kit:



Application example



Ordering Information:

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1012 = 10 inputs - 12 outputs

H = potted plastic Housing for panel mounting

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