



CEC-DM1



CAN / ETHERNET CONVERTER MODULE FOR THE GMS SYSTEM

USER MANUAL

Table of contents

1 GENERAL 2

2 TECHNICAL SPECIFICATION 2

3 CONNECTION DIAGRAM 2

4 TROUBLESHOOTING 3

5 CONTACT 3

1 General

The CEC-DM1 is a converter module between the CAN bus and the Ethernet network. It is used in the GMS measuring system for data exchange between the RMS/GMS units and the control software in a Panel PC. The IP-based protocol uses the UDP transport layer for data exchange. Each unit has a unique MAC-address and the configurable IP-address. The software in the Panel PC is set up to exchange data to a specified IP-address. The unit is powered with 24Vdc.

2 Technical Specification

Metso part no: VAL0219209
 Supply voltage: 24 VDC, ± 10 %.
 Power consumption: Nominal 0.1A, Max. 0.2A.
 CAN: Up to 1Mbit baudrate, 4-pole jackable screw connector.
 Ethernet; IP-based, UDP-protocol, RJ45 connector.
 Module size: Height=110 mm, Width=23 mm, Depth=115 mm.
 Closure: Polycarbonate (30%GV), DIN-rail mounting.
 Connections: Plug-in screw connectors, max 2.5mm² cable areas.

3 Connection Diagram

K1	+24VDC	
K1/1	+24VDC	The power supply (internally connected to K1/2)
K1/2	+24VDC	The power supply (internally connected to K1/1)
K1/3	0VDC	The power ground (internally connected to K1/4)
K1/4	0VDC	The power ground (internally connected to K1/3)
K2	CAN	
K2/1	CAN-H	CAN-interface H-signal (use twisted pair cable for CAN-H and CAN-L)
K2/2	CAN-L	CAN-interface L-signal
K2/3	CAN-R	CAN-interface, connect to K2/2 for 120Ω termination
K2/4	0VDC	The power ground (internally connected to K1/2 and K1/3)
K3	Ethernet	
K3	Ethernet	RJ-45 connector

4 Troubleshooting

Two leds can be found beside the Ethernet connector on the lower side of the unit.

The green ETHERNET led.

The led flashes at 1Hz when the Ethernet traffic occurs.
Check the Ethernet connection if the led never lits.

The yellow CAN led.

The led flashes at 1Hz when the CAN traffic occurs.
Check the CAN connection if the led never lits.

5 Contact

Sales, development, production and service:

Dametric AB

Jägerhorns Väg 19, SE 141 75 Kungens Kurva, Sweden

Phone: +46-8 556 477 00

Telefax: +46-8 556 477 29

E-Mail: service@dametric.se

Website: www.dametric.se

dametric 

Valmet 