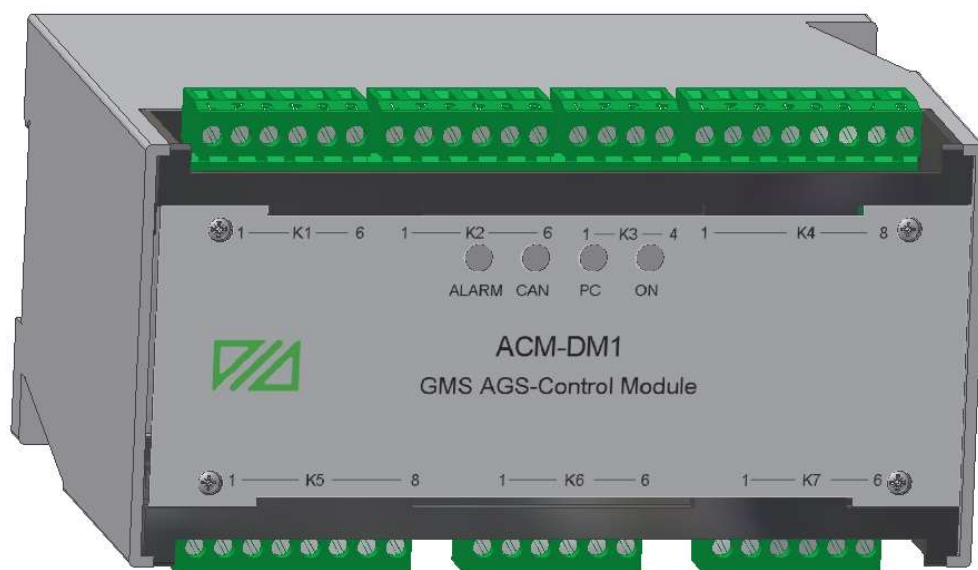


dametric 

ACM-DM2



AGS Control Module with Plate Gap Control DESCRIPTION

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1. General

The ACM-DM2 is a control module for the AGS sensor and a plate gap controller.

This unit includes the interface between the remote functions in the AGS module and the other GMS units and the Panel PC in the electrical cabinet.

Cables from the AGS head in the field are connected direct to the unit and the module communicates with other GMS modules thru a CAN bus.

Some parameters and calibration data are stored in the unit.

The unit also serves as a plate gap controller in GMS and RMS-RS1 systems.

2. Technical data

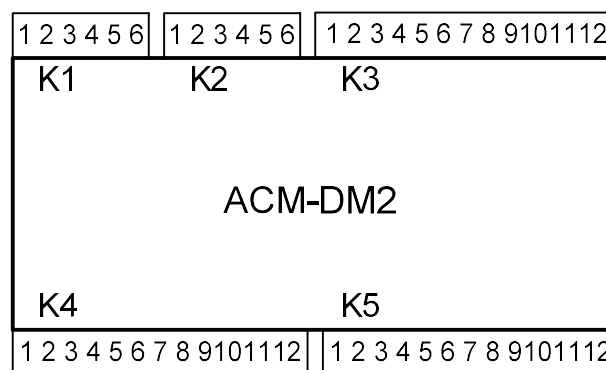
Supply voltage	24 VDC, $\pm 10\%$
Power consumption	Max 1.5 A
Module size	Height=75 mm, Width=150 mm, Depth=110 mm
Closure	Polycarbonate (30% GV), DIN-rail mounting
Panel indicators	ON, indicates power supply CAN, indicates CAN communication STATUS, indicates status of communication with the PC ALARM, indicates a sum alarm
CAN interface 1	250 kBit CAN interface to the other units in the electrical cabinet.
CAN interface 2	250 kBit CAN interface to the AGS sensor.
Analogue input	Type : 4-20mA signal current Common mode range : ± 150 V Input resistance : 200 Ω
Digital inputs	Number: 3 Voltage: 24Vdc Pull down resistor: 10k Ω Min voltage for logic "1": 15Vdc , Max voltage for logic "0": 8 Vdc Input current at 24Vdc: 10mA
Digital outputs	Number: 3 Voltage: 24Vdc Pull down resistor: 10k Ω Current output: max 200mA Short circuit protection: yes Temperature protection: yes

3. Led indicators

Alarm, red	Continuous: ACM unit sum alarm, check alarm list in Panel-PC. Flashing: AGS Sensor sum alarm, check alarm list in Panel-PC.
CAN, yellow	Short blink: OK, Indicating CAN bus traffic. Blinking at 1 Hz: CAN bus alarm.
PC, yellow	Not used.
ON, green	Continuous: Unit is powered up.

4. Connection

Placement of the connectors



K1 – Power supply and CAN1

K1/1	+24VDC	
K1/2	0VDC	
K1/3	CAN1H	Connect to CAN-bus within the cabinet
K1/4	CAN1L	Connect to CAN-bus within the cabinet
K1/5	CAN1R	Connect to K1/4 for 120Ω termination
K1/6	Ground	

K2 – CAN2

K2/1	CAN2H	Connect to the AGS sensor
K2/2	CAN2L	Connect to the AGS sensor
K2/3	Not used	
K2/4	Not used	
K2/5	Not used	
K2/6	Not used	
K2/3	Not used	

K3 – Analogue inputs and outputs

K3/1	Current input 1, + 4-20mA
K3/2	Current input 1, -
K3/3	Current input 2, + 4-20mA
K3/4	Current input 2, -
K3/5	Current input 3, + 4-20mA
K3/6	Current input 3, -
K3/7	Current output 1, + 4-20mA (option)
K3/8	Current output 1, -
K3/9	Current output 2, + 4-20mA (option)
K3/10	Current output 2, -
K3/11	Current output 3, + 4-20mA (option)
K3/12	Current output 3, -

K4 – Digital outputs

K4/1	Digital output 1	
K4/2	Digital output 2	
K4/3	Digital output 3	
K4/4	Digital output 4	
K4/5	Digital output 5	
K4/6	Digital output 6	
K4/7	Digital output 7	
K4/8	Digital output 8	
K4/9	Digital output 9	
K4/10	Digital output 10	
K4/11	Digital output 11	
K4/12	Ground	Reference voltage for digital outputs

K5 – Digital inputs

K5/1	Digital input 1	
K5/2	Digital input 2	
K5/3	Digital input 3	
K5/4	Digital input 4	
K5/5	Digital input 5	
K5/6	Digital input 6	
K5/7	Digital input 7	
K5/8	Digital input 8	
K5/9	Digital input 9	
K5/10	Digital input 10	
K5/11	Digital input 11	
K5/12	Ground	Reference voltage for digital outputs

5. Valmet article number

VAL0336349

6. Contact**Dametric AB**

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