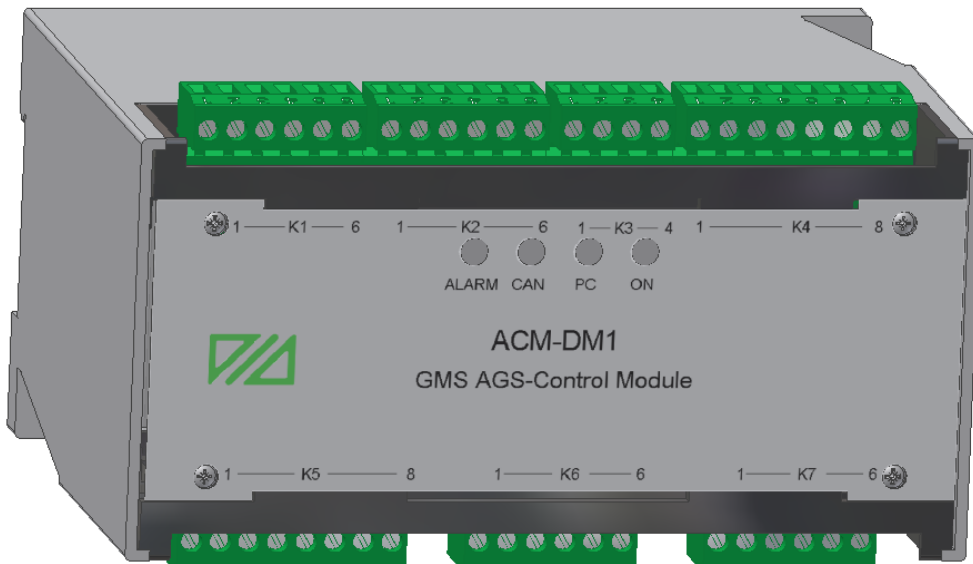




# ACM-DM1



## AGS Control Module

## DESCRIPTION

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### 1. General

The ACM-DM1 is a control module for the AGS sensor.

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.

### 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 toward the other units in the electrical cabinet.
CAN interface 2	250 kBit CAN interface toward the AGS sensor.
Analogue input	Type : 4-20mA signal current Common mode range : $\pm 150\text{ V}$ Input resistance : $200\ \Omega$
Digital inputs	Number: 3 Voltage: 24Vdc Pull down resistor: $10\text{k}\Omega$ 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: $10\text{k}\Omega$ Current output: max 200mA Short circuit protection: yes Temperature protection: yes
Metso article number	VAL0253897.

### 3. Led indicators

Alarm, red	Continous: 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	Contrinuous: Unit is powered up.

#### 4. Connection

##### 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 input

K3/1	Not used
K3/2	Not used
K3/3	+ 4-20mA
K3/4	- 4-20mA

##### K4 – Digital inputs, digital outputs

K4/1	+24Vdc	Output to feed the digital inputs
K4/2	Digital input 1	
K4/3	Digital input 2	
K4/4	Digital input 3	
K4/5	Digital output 1	
K4/6	Digital output 2	
K4/7	Digital output 3	
K4/8	Ground	Reference voltage for digital outputs

K5	Not used
K6	Not used
K7	Not used

#### 5. Contact

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