

AIM-DM1

ANALOGUE INPUT MODULE



FOR THE GMS SYSTEM

MANUAL

dametric 

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1 General

The AOM-DM1 is an input module for analogue current outputs, 4-20mA.

The unit is used in a GMS measuring system (GMS = Gap Monitoring System) to measure signal current inputs from the instrumentation system.

The AIM can measure four galvanically isolated inputs in the range of 4.00 – 20.00 mA. The currents are converted to digital signals and are presented to other GMS units over the CAN.

Additional AIM units can be connected to measure more analogue signals and the units are separated by different nodes by jumpers on the connection socket. The unit is powered from 24VDC.

2 Technical Specification

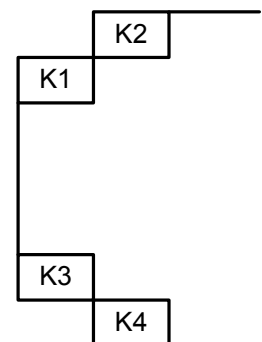
Power supply:	24 VDC, ± 10 %.
Power consumption:	Nominal 0.2A, max. 0.3A.
CAN:	Up to 1Mbit bit rate, 4-pole jackable screw connector.
Input:	4 pcs. galvanically isolated current signals, 4-20mA.
Node:	Selectable: 1, 2, 3 or 4 by jumpers on the connector.
Module size:	Height=110 mm, width=23 mm, Depth=115 mm.
Enclosure:	Polycarbonate (30%GV), DIN-rail mounting.
Connection:	Jackable screw connectors, max 2.5mm ² cable area.

3 Connection

The connectors are numbered with the lowest number to the left. Therefore, the sockets in the top have black markings while the bottom sockets have white marking. Note this if the sockets are removed from the unit.

The placement of the sockets is shown on labels on both sides of the unit.

K1	+24VDC, Node	
K1/1	+24VDC	Power supply
K1/2	0VDC	0V
K1/3	Nod 1	Possible jumper to K1/2 (see table)
K1/4	Nod 2	Possible jumper to K1/2 (see table)
K2	CAN	
K2/1	CAN-H	CAN-bus H-signal (use twisted pair cable for CAN-H and CAN-L)
K2/2	CAN-L	CAN- bus L-signal
K2/3	CAN-R	CAN- bus, connect to K2/2 for 120Ω termination
K2/4	0VDC	0V (internally connected with K1/2)



K3		
Current input 1,2		
K3/1	lin 1+	+ 4-20mA, current input 1
K3/2	lin 1-	- 4-20mA, current input 1
K3/3	lin 2+	+ 4-20mA, current input 2
K3/4	lin 2-	- 4-20mA, current input 2
K4		
Current input 3,4		
K4/1	lin 3+	+ 4-20mA, current input 3
K4/2	lin 3-	- 4-20mA, current input 3
K4/3	lin 4+	+ 4-20mA, current input 4
K4/4	lin 4-	- 4-20mA, current input 4

4 Nodes

Connect between K1/2, /3 and /4 according to table to achieve the desired node.

Nod	K1/3	K1/4
1	open	open
2	to K1/2	open
3	open	to K1/2
4	to K1/2	to K1/2.

5 Customer article no.

Metso art.nr: VAL0334652.

6 Contacts

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