AOM-DM1

ANALOGUE OUTPUT MODULE

FOR THE GMS SYSTEM

MANUAL

dametric

Content

1 General

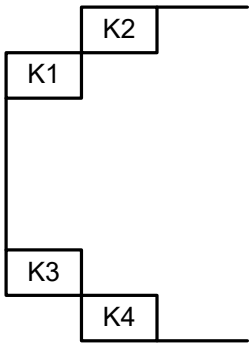
The AOM-DM1 is an output module for analogue current outputs, 4-20mA.
The unit is used in a GMS measuring system (GMS = Gap Monitoring System) to generate current outputs to a superior instrumentation system.
The AOM can generate four galvanically isolated outputs and each output is limited to 4.00 – 20.00 mA. The currents are generated from a CAN bus input, and the data is sent from other units within the GMS system. Additional AOM units can be connected to generate more analogue outputs and the units are separated by different nodes by jumpers on the connection socket. The unit is powered from 24VDC.

2 Technical Specification

Metso Paper art.no.:	
Power supply:	24 VDC, ± 10 %.
Power consumption:	Nominal 0.2A, max. 0.3A.
CAN:	Up to 1Mbit bit rate, 4-pole jackable screw connector.
Output:	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 2.5mm2 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 output 1,2**	
K3/1	Iout 1+	+ 4-20mA, current output 1
K3/2	Iout 1-	- 4-20mA, current output 1
K3/3	Iout 2+	+ 4-20mA, current output 2
K3/4	Iout 2-	- 4-20mA, current output 2

K4	**Current output 3,4**	
K4/1	Iout 3+	+ 4-20mA, current output 3
K4/2	Iout 3-	- 4-20mA, current output 3
K4/3	Iout 4+	+ 4-20mA, current output 4
K4/4	Iout 4-	- 4-20mA, current output 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.

Dametric	*SKC*	*Valmet*	*Gigasense*
AOM-DM1	SKC2594358	VAL0329045	BA5316.

6 Contacts

Development, production and service:

Dametric AB
Jägerhorns Väg 19, SE-141 75 Kungens Kurva, Sweden
Phone: +46 (8) 556 477 00
e-mail: dametric@dametric.se www.dametric.se