DIN rail mounting, 6 inputs and 2 outputs digital I/O module D8 line

Quick Guide • QG D8 - 1/11.09 • Cod. J30-478-1AD8 QG



via Indipendenza 56, 27029 - Vigevano (PV) Tel.: +39 0381 698 71, Fax: +39 0381 698 730 www.ascontecnologic.com internet site: sales@ascontecnologic.com E-mail:

Configuration and setting Software

The instrument must be configured using **Controller Explorer** (a propietary free software). The most recent release of Controller Explorer is downloadable from our web site:

www.ascontecnologic.com

To download the file access click on the banner: ascon Select: Download/Software

Note: The first time you access the Download/Software area, you are requested to register yourself to the site. Press the "Register" key and follow the instructions displayed.

Search and download the file:

Ascon_SW_CE_Xnn.zip (Xnn identifies the release). The default communications parameters are: transmission speed: 9600 bps; protocol: ModBus; serial address: 247

Warning! When more controllers/instruments are to be installed, keep in mind that the default serial address always is 247. For this reason, always connect/power on only 1 not configured instru-ment a time, in order to avoid the presence, on the same network, of 2 instruments with the same address. During the configuration, assign to each instrument a different serial address.

The "gammadue® and deltadue® controller series Serial communications and configuration software" manual can be downloaded from the web site:

www.ascontecnologic.com (then click on: ascon) Select: Download/Documentation, and fill the table with: Typology: Manual

- Type: A11
- Language: All
- Code: SERG2D2
- Click: **SEARCH** and download the file:

Ascon_MIU_SERIALE GAMMA2-DELTA2_RevXX_EN.zip (XX identifies the revision number)

Model code

The product code indicates the specific hardware coniguration of the in strument, that can be modified by specialized engineers only.

				Configuration	
	Line	Basic	Accessories	1 st part	2 nd part
Model:	D 8	5 B 5 D	- E 9 0 0	/ I L 0 0	-0000

Line	D 8			
D01 - D02 Outputs	B			
Relay - Relay	1			
Relay – SSR Drive	2			
SSR drive – SSR drive	3			
SSR - SSR	4			
SSR – SSR drive	5			
Special function				
Not fitted	0			
2 Timers	2			

Configuration code

A 4 + 4 digits index code follows the model (letters from I... R). ode can be used to buy a pre-configured cont

his code can be used to buy a pre-compared	controller.	
Input type	•	
No frequency input	0	
Frequency input on DI1	1	
Frequency input on DI1 and DI2		
Output type	L	
No PWM output	0	
PWM output on DO2 [1]	1	

Declaration of conformity and manual retrival

Class II instrument, rear panel mounting. This controller has been designed with compliance to the European Directives. Consult Declaration of Conformity for further details on Directives and Standards used for Compliance. Declaration of Conformity can

be found in the file ASCON_DC_D2.zip. All information about the controller are inserted in the manuals (ASCON_MI_D8_EN.zip and ASCON_MU_D8_EN.zip). The Declaration of Conformity and the manuals of the controller can be downloaded (free of charge) from the web-site: www.ascontecnologic.com Once connected to the web-site, click on the **ascon** logo. Select: Download/Documentation, and fill the table with: • Typology: Manual; Type: All; Language: All; Code: DELTA2 Click: SEARCH and • Download the file: ASCON_DC_D2.zip (Declaration of Conformity of delta2 controllers)

ASCON_MI_D8_EN.zip (Installation) ASCON_MU_D8_EN.zip (User)

▲ Warning!

or

CE

- Whenever a failure or a malfunction of the device may cause dangerous situations for persons, things or animals, please remember that the plant must be equipped with additional devices which will guarantee safety. - We warrant that the products will be free from defects in material and
- workmanship for 18 months from the date of delivery. Products and components that are subject to wear due to conditions of use, service life, and misuse are not covered by this warranty.

Mounting several instruments

1 Mounted the instruments on the rail, put them side by side so that the male side connector fits into the corresponding female connector



4 When assembled insert the connector protection on both sides.

Parameters list

ed to the correspondent serial ModBus address.

ModBus address	Devemator name	Value		
	Parameter name	Default	Modbus	User
)	Inputs internal logical status (bits 16) and outputs (bits 7 8)			
l	Dh frequency			
2	DI2 frequency			
3	PWM frequency	0	0	
4	Duty Cycle output DO1	0	0	
5	Duty Cycle output DO2	0	0	
5	Duty Cycle output DO1 at Power-ON	0	0	
7	Duty Cycle output DO2 at Power-ON	0	0	
30	Input filter DI1	0	0	
31	Input filter DI2	0	0	
32	Input filter DI3	0	0	
33	Input filter DI4	0	0	
34	Input filter DI5	0	0	
35	Input filter DI6	0	0	
+9	Timer 1 – Type	none	0	
50	Timer 1 – Digital Input associated to Trigger	none	0	
51	Timer 1 – Digital Input associated to Reset	none	0	
52	Timer 1 – Digital Output associated to Timer	none	0	
53	Timer 1 – Enable status at startup	0	0	
54	Timer 1 – Period Time Base (TP)	seconds	0	
55	Timer 1 – ON Period Time Base (TOn)	seconds	0	

Dimensions

Terminal connectors

A

В

ø

Termi-

nation

plug

С

D $\bar{\mathbb{D}}\bar{\mathbb{D}}\bar{\mathbb{D}}\bar{\mathbb{D}}$

Connections

ΠL

5-K-

Hz

лφ

Plug with

termination f

resistor

for serial

(male)

ΠL

Terminals

⊢∟⊣ wire

ـ

comm.s bus

4 terminal connectors

0000

0000

6 7

DI5 DI6 PWR ADDRESS ASCOT 9 10 11 12

13 14 15 10

 $\bar{\mathbb{D}}\bar{\mathbb{D}}\bar{\mathbb{D}}\bar{\mathbb{D}}\bar{\mathbb{D}}$

NO

NO C

Features

Stripped

Flat blade

screwdrive

Tightening

torque



RS48

Configuration

RS485

Connector for power

supply and serial comm.s bus (female)

÷≁

NPN

NO

A - B - C - D

= 7 mm - 0.28 in

0.6 x 3.5 mm

0.5... 0.6 Nm

,24V ≃

--

Bus/Power Supply

L = 7 mm - 0.28 in

0.4 x 2.5 mm

0.4... 0.5 Nm

Value

TTL

Power

supply

switch

and Supervision

πι

ଡ଼

H₇

i i i i i

comm.s

connector

Power supply

OP1 OP2

₽ Ľ\$P

ᠳᢆ᠋ᡵᡀ

)|3 _€| D|4

DIN rail mounting

CLIC 1 clip the upper part of the 2 rotate the instrument downwards until the click instrument on the rail

Removing the instrument from the DIN rail Switch the instrument off



Serial communications connection examples



Acquisition and centralized supervision D8 - 31 max. instru



Local control



controller series Serial communications and configuration software".

/lodBus

	Varamotor namo				
address		Default	Modbus	User	
56	Timer 1 – Period selection (TP)	1	1		
57	Timer 1 – ON Period selection (TOn)	1	1		
58	Timer 1 – Enable (TEn)	0	0		
59	Timer 1 – Reset	0	0		
60	Timer 1 – Event				
61	Timer 1 – Status				
62	Timer 1 – Trigger in memory		0		
63	Timer 1 – Type	0	0		
61.	Timer 2 – Digital Input associated to	0	0		
04	Trigger	0			
65	Timer 2 - Digital Input associated to	0	0		
0)	Reset	0			
66	Timer 2 – Digital Output associated to	0	0		
	Timer	-			
67	Timer 2 – Enable status at startup	0	0		
68	Timer 2 – Period Time Base (TP)	seconds			
69	Timer 2 – ON Period Time Base (TOn)	seconds			
70	Timer 2 – Period selection (TP)	0	0		
71	Timer 2 – ON Period selection (TOn)	0	0		
72	Timer 2 – Enable (TEn)	0	0		
73	Timer 2 – Reset	0	0		

ModBus address	Command	Values
0	Internal logical status – DI1	
1	Internal logical status – DI2	
2	Internal logical status – DI3	
3	Internal logical status - DI4	
4	Internal logical status – DI5	
5	Internal logical status - DI6	
6	Internal logical status – DO1	
7	Internal logical status - DO2	
8	TOGGLE logical status – DI1	
9	TOGGLE logical status – DI2	
10	TOGGLE logical status – DI3	
11	TOGGLE logical status – DI4	
12	TOGGLE logical status - DI5	
13	TOGGLE logical status - DI6	
14	FLIP-FLOP 1 logical status	
15	FLIP-FLOP 2 logical status	
16	FLIP-FLOP 3 logical status	
17	HOLD output DO1 enable	o = free; 1 = HOLD
18	HOLD output DO2 enable	o = free; 1 = HOLD
19	Output D01 status at Power–ON	o = Output disabled; 1 = output enabled
20	Output DO2 status at	o = Output disabled;

