

S4AO - MODULE OF 4 ANALOG OUTPUTS

FEATURES:

MOD BUS

eCon
Program


- Conversion of RS-485 MODBUS data into standard signals in 4 channels (current 0/4...20 mA or voltage 0...10 V).
- Possibility of connection via internal RS-485 port in order to increase no of analog outputs in other devices.
- Two independent communication ports (possibility to work as Master/Slave).
- Master Modbus function dedicated to read out data from other RS-485 devices and to scale analog value.
- Slave Modbus function to set the signal on analog outputs.
- Outputs working time counter.
- Mounting on a TS35 rail.
- Galvanic separation between 2 groups of outputs.
- Possibility of configuration through USB without power supply..

INPUTS:

2x **RS 485**

OUTPUTS:

4x

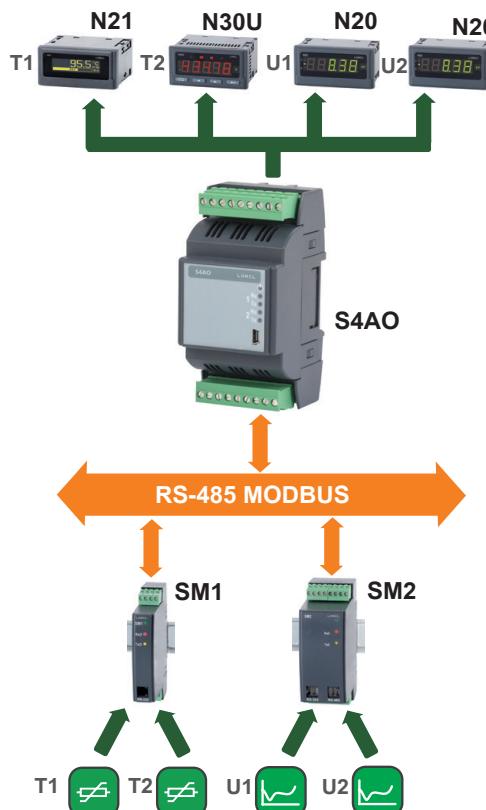
GALVANIC ISOLATION:



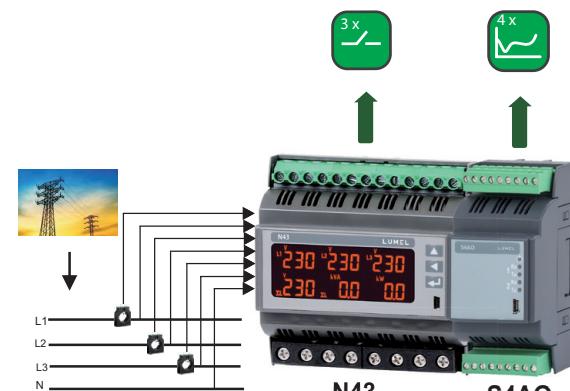
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EXAMPLE OF APPLICATION



Retransmission of analog signals through S4AO.



Increasing number of analog outputs in power network meters by adding S4AO module.

DIGITAL INTERFACE

Interface type	Transmission protocol	Modes	Baud rate
RS-485	Modbus RTU	8N2,8E1,8O1,8N1	1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 kbit/s

OUTPUTS

Output type	Range	Remarks
Current	0...20...24 mA or 3.75...4...20...24 mA, load resistance 0...500 Ω, disposable voltage: 15 V	basic error: 0.2 % of range resolution: 0.05 % of range Additional errors in % of the basic error from ambient temperature changes: < 0.1 % / 10 °C
Voltage	0...10...12 V load resistance > 500 Ω, disposable voltage: 15 V	basic error: 0.2 % of range resolution: 0.1 % of range Additional errors in % of the basic error from ambient temperature changes: < 0.1 % / 10 °C

EXTERNAL FEATURES

Overall dimensions	53 x 110 x 60.5 mm
Weight	< 0.2 kg
Protection grade	IP50 from terminal side: IP00

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RATED OPERATING CONDITIONS

Supply voltage	85...253 V a.c. 40...400 Hz; 90...300 V d.c. or 20...40 V a.c. 40...400 Hz; 20...60 Vd.c.	
Temperature	ambient: -10...23...+55°C	storage: -25...+70°C
Relative humidity	< 95% (inadmissible condensation)	
Operating position	on a TS35 rail	
External magnetic field	0...40...400 A/m	

SEE ALSO:



Free eCon software for easy programming of LUMEL products. Available on our website.



N30U
Programmable digital meter of temp., resistance and standard signals



N25
configurable digital indicator



N21
temperature and d.c. standard signals universal digital meter with OLED



N43
rail mounted 3-phase power network meter

For more information about LUMEL products please visit our website: www.lumel.com.pl

ORDERING

ORDERING CODE:

S4AO - X X XX X X

Outputs:

4 current outputs, 0/4...20 mA

1

4 voltage outputs, 0...10 V

2

2 sets of 1 voltage + 1 current output: 0...10 V and 0/4...20 mA

3

acc.to customer's requirements*

X

Supply voltage:

85...253 V a.c., 90...300 V d.c.

1

20...40 V a.c., 20...60 V d.c.

2

Version:

standard

00

custom-made*

XX

Language:

Polish

P

English

E

other*

X

Acceptance tests:

without extra quality requirements

0

with an extra quality inspection certificate

1

acc.to customer's requirements*

X

* - After agreeing with the manufacturer

ORDER EXAMPLE:

Code S4AO - 1100E0 means:

S4AO - S4AO module

1 - 4 current outputs 0/4...20 mA

1 - supply 85...253 V a.c./d.c.

00 - standard version

E - English version

0 - without extra quality requirements

ACCESSORIES:

- USB CABLE A/miniUSB-B - 1m BLACK, **order code:** 20-069-00-00150
- lateral bus inter-module connector; **order code:** 24-171-01-00016,
- lateral bus to cable connector; **order code:** 24-171-01-00017.

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