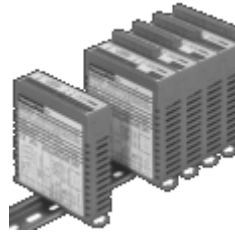


Programmable AC Current / Voltage Transmitter Model DPM-9006 AL



DESCRIPTION

Model DPM-9006 AL

The Model DPM-9006 AL is a miniature space saving 92 x 92 x 26 mm DIN rail mount AC voltage or current programmable Transmitters. The unit can accept voltages up to 500V and currents up to 5A, and converts them to an isolated 0-10V, 0-20mA output.

Configuration / programming of the unit is accomplished by using a notebook computer or desktop PC using user-friendly software available from our WebSite.

This transmitter offers complete 3-way isolation between power supply, input and output. The power supply is supply is 95-265V AC/DC as standard.

The RS232 serial interface is standard. The serial interface allows connections to remote computers and SCADA systems using DPM's DIGIbus protocol. The RS485 option allows up to 99 transmitters to be linked on the same bus.

FEATURES

- DIN rail mount 92 x 92 x 26 mm enclosure, UL 94 V-0 flame retardant plastic
- Fully programmable via a notebook or desktop PC.
- Low cost - high performance design
- Complete 3-way isolation between power, input and output.
- Voltage inputs up to 500V, current inputs up to 5A
- Heavy duty type input terminals
- 0-10V, 0-20mA or 4-20mA analogue output with programmable zero & span
- RS232 serial communications standard with DIGIbus protocol.
- Meets European EMC directive 89/336/EEC & Low Voltage directive 73/23/EEC
- 3 year guarantee

OPTIONS

Model DPM-3001-P AL Two set points (solid-state relays)

Model DPM-3002 AL RS485 serial interface

Model DPM-3004-P AL One set point (solid-state relay)

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**Programmable AC Current /
Voltage Transmitter
Model DPM-9006 AL**

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SPECIFICATIONS

ANALOG INPUT

Maximum voltage input	500V AC
Voltage overload (temporary)	550V for 1 minute
Maximum current input	5A AC
Current overload (temporary)	6A for 1 minute
AC measurement	True Root Mean Square
Frequency	40-100Hz
Accuracy	0.3% of full scale, ± 1 display count

GENERAL PERFORMANCE

Temperature coefficient	20ppm / °C typically
Settling time	1 second
Memory retention	Full non-volatile operation
Power-up / self test time	1 – 3 seconds
Warm up time	10 minutes typically
RS232 isolation to input	No

A/D CONVERTER

A/D Type	16 bit dual slope
A/D internal resolution	40000 internal counts
A/D conversion rate	Approximately 7 per second

ANALOGUE OUTPUT

Analogue output isolation	1000V input/output/power isolation (3-way)
Analogue output accuracy	0.1% of full scale, 12-bits
Analogue output temp. coefficient	20 ppm / °C typically
Current analog output load	500 Ω maximum (current is source, not sink)
Voltage analog output load	10k Ω minimum

SET POINT OPTIONS

Solid-state relay rating	400V AC/DC, 0.5A, power factor 1
Form Type	Form A (normally open contact)

ENVIRONMENTAL

Operating temperature range	-10°C to +50°C
Service temperature range	-15°C to +60°C
Storage temperature range	-40°C to +80°C
Humidity	< 85% non-condensing

MECHANICAL SPECIFICATIONS

Dimensions	DIN rail mount 92x92x26mm enclosure, IP40 rating
Protection	Industrial strength, UL 94 V-0 flame retardant ABS plastic

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POWER SUPPLY OPTIONS

Switching power supply Yes, 95V – 265V AC/DC isolated supply, 5VA typical

REGULATORY COMPLIANCE

Regulatory requirements Complies with EC Directives 89/336/EEC & 73/23/EEC

ORDERING EXAMPLE

Option modules (see front page) „Programmable AC Current / Voltage transmitter and dual alarm option“
MODEL DPM-9006 AL – DPM-3001-P AL

PROGRAMMABLE SETTINGS

The following ranges can be set with the SmartView software, available from our WebSite.

INPUTS

Input types :Voltage or Current
 Input voltage range :0 to 500.0 Volts
 Input current range :0 to 5.000 Amps
 Zero Scaling :-1999 to 20000
 Span scaling :-1999 to 20000
 Digital filter : 0, 1, 2 or 4 secs

ANALOG OUTPUT

Output type :0-20mA/4-20mA/0-10V
 Zero & span setting :-1999 to 20000

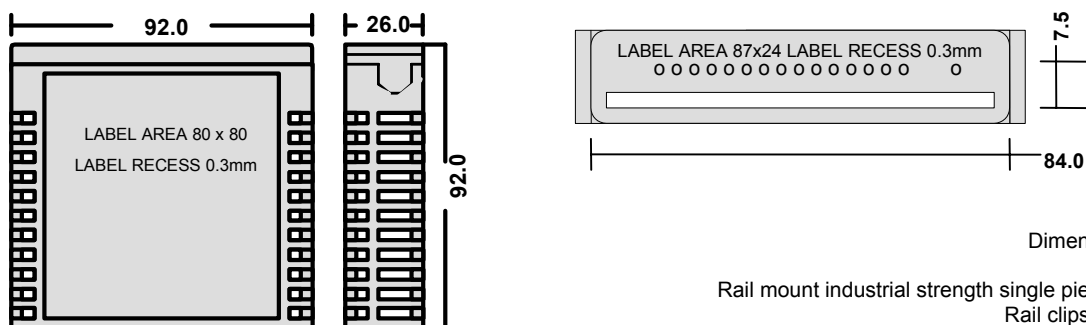
SERIAL INTERFACE

Bus address :0 to 99
 Baud rate :2400, 4800, 9600, 19k2

OPTIONS

Alarm values :-1999 to 20000
 Alarm hysteresis :0 to 255 (default 1)
 Alarm delay :0 to 255 seconds (default 0)
 Alarm relay settings :Selectable HI or LO alarm
 Alarm relay state :Selectable NO or NC


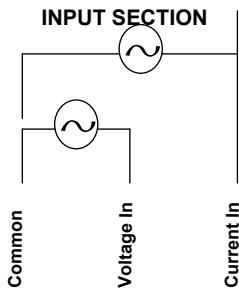
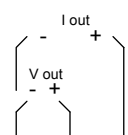
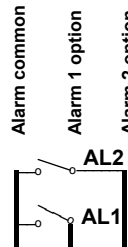

HOUSING DIMENSIONS



Dimension in mm
 IP40 rating
 Rail mount industrial strength single piece housing
 Rail clips not shown

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CONNECTIONS / INSTRUCTION LABEL

AC VOLT / CURRENT TRANSMITTER			S/N:											
Supply : 95-265V AC/DC														
INPUT TYPE :														
INPUT SCALLING :														
OUTPUT :		<input type="radio"/> 0-10V			<input type="radio"/> 4-20mA			<input type="radio"/> 0-20mA						
SERIAL INTERFACE :				<input type="radio"/> RS232				<input type="radio"/> RS485						
OPTIONS :				<input type="radio"/> 1 ALARM				<input type="radio"/> 2 ALARM						
 INPUT SECTION 			OUTPUT SECTION 			COMMS SECTION For RS485, use pins 12, 13. For RS232, use pins 11, 12, 13. GND D+ (RX) D- (Tx)			ALARMS OPTION 			POWER SUPPLY  AC supply Earth Live Neutral		
1	2	3	8	9	10	11	12	13	14	15	16	E	L	N
Common	Voltage In	Current In	Output Common	Voltage Out	Current Out	Communications	Communications	Communications	Alarm Common	Alarm 1 option	Alarm 2 option	Earth	Live or +DC	Neutral or -DC

External 1A
SLO BLO Fuse
Recommended

GUARANTEE

This product is guaranteed against faulty workmanship or defective material, for a period of 3 (three) years from date of delivery by Andreas Lang GmbH.

Andreas Lang GmbH undertakes to replace without charge all defective equipment which is returned to it (transportation costs prepaid) during the period of guarantee, provided there is no evidence that the equipment has been abused or mishandled in any way. Andreas Lang GmbH reserves the right to alter any specification without notice.

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