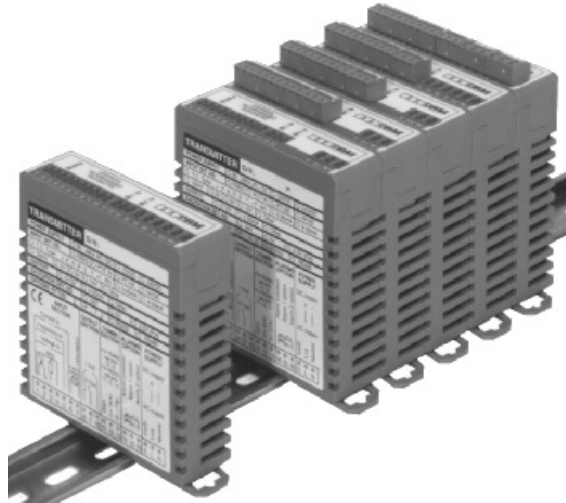


MODEL 9006

PROGRAMMABLE AC CURRENT AND VOLTAGE TRANSMITTERS



The Model 9006 is a miniature space saving 92 x 92 x 26 mm DIN rail mount AC voltage or current programmable transmitter. The unit can accept voltages up to 500V and currents up to 5A, and converts them to an isolated 0-10V, 0-20mA or 4-20mA output.

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

This transmitter offers complete 3-way isolation between power supply, input and output. The power 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 interface standard with DIGIbus protocol
- ☐ Meets European EMC directives 89/336/EEC & Low Voltage directive 73/23/EEC
- ☐ 3 year guarantee

OPTIONS

- | | |
|--------|-------------------------------------|
| 3001-P | Two set points (solid-state relays) |
| 3002 | RS485 serial interface |
| 3004-P | One set point (solid-state relay) |

SPECIFICATIONS

ANALOGUE 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

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

A/D CONVERTER

A/D type	16 bit dual slope
A/D internal resolution	40 000 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 W maximum (current is source, not sink)
Voltage analog output load	10 kW minimum

Note: The current and voltage output cannot be used simultaneously.

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

MECHANICAL SPECIFICATIONS

Dimensions	DIN rail mount 92 x 92 x 26 mm enclosure, IP40 rating
Protection	Industrial strength, UL 94 V-0 flame retardant ABS plastic

POWER SUPPLY OPTIONS

Switching power supply	Yes, 95V - 265V AC/DC isolated supply, 5VA typical
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REGULATORY COMPLIANCE

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

ORDERING EXAMPLE

Option modules (see front page)

MODEL 9006 - 3001P

“Programmable AC Current / Voltage transmitter and dual alarm option”

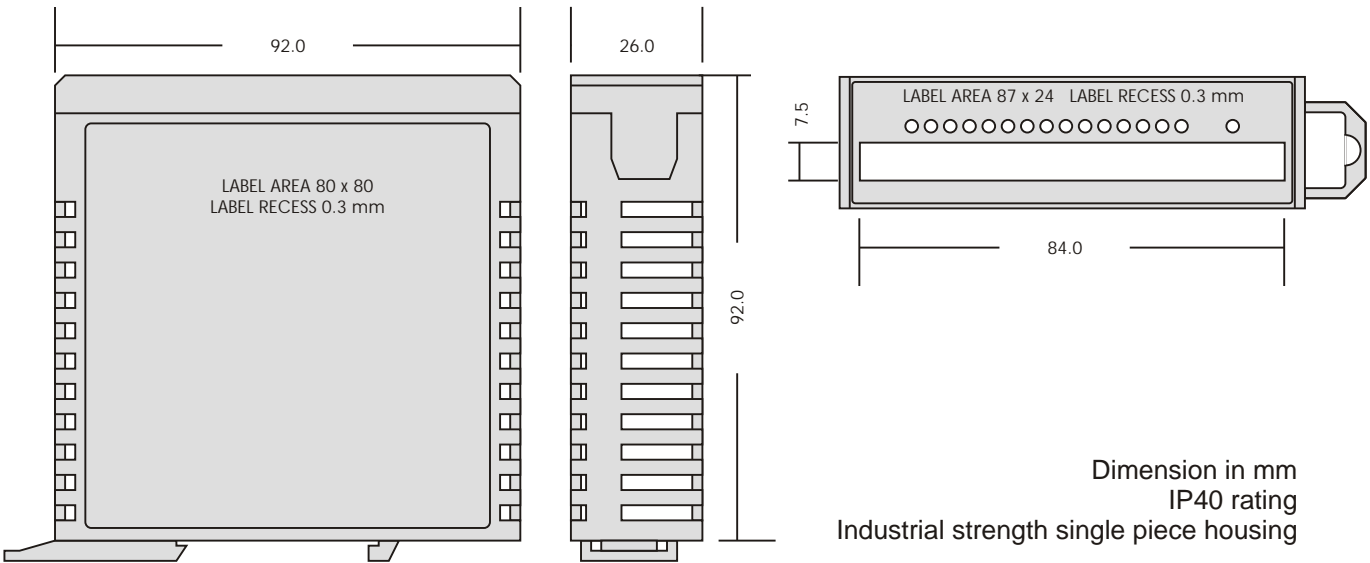
PROGRAMMABLE SETTINGS

The following ranges can be set with the SmartView software, available from our web-site.


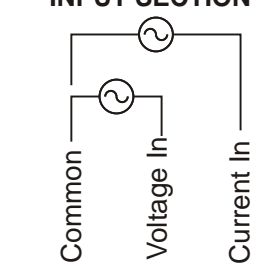
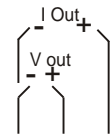
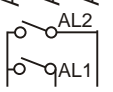

INPUTS	
Input types	Voltage or Current
Input voltage range	0 to 500.0 Volts
Input current range	0 to 5.000 Amps
Zero scaling	-1999 to 20000
Span scaling	-1999 to 20000
Digital filter	0, 1, 2 or 4 secs
ANALOG OUTPUT	
Output type	0-20mA/4-20mA/0-10V
Zero & span setting	-1999 to 20000
SERIAL INTERFACE	
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



CONNECTIONS / INSTRUCTION LABEL

AC VOLT / CURRENT TRANSMITTER			S/N:																																	
Supply : 95 - 265V AC / DC																																				
INPUT TYPE :																																				
INPUT SCALING :																																				
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  <table border="1"> <tr> <td>Common</td> <td>Voltage In</td> <td>Current In</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> </tr> </table>			Common	Voltage In	Current In	1	2	3	OUTPUT SECTION  <table border="1"> <tr> <td>Output Common</td> <td>Voltage Out</td> <td>Current Out</td> </tr> <tr> <td>8</td> <td>9</td> <td>10</td> </tr> </table>	Output Common	Voltage Out	Current Out	8	9	10	COMMS SECTION For RS485, use pins 12, 13. For RS232, use pins 11, 12, 13. <table border="1"> <tr> <td>GND</td> <td>D+ (RX)</td> <td>D- (Tx)</td> </tr> <tr> <td>11</td> <td>12</td> <td>13</td> </tr> </table>	GND	D+ (RX)	D- (Tx)	11	12	13	ALARMS OPTION Alarm common Alarm 1 option Alarm 2 option  <table border="1"> <tr> <td>Alarm common</td> <td>Alarm 1 option</td> <td>Alarm 2 option</td> </tr> <tr> <td>14</td> <td>15</td> <td>16</td> </tr> </table>	Alarm common	Alarm 1 option	Alarm 2 option	14	15	16	POWER SUPPLY  AC supply <table border="1"> <tr> <td>Earth</td> <td>Live</td> <td>Neutral</td> </tr> <tr> <td>E</td> <td>L</td> <td>N</td> </tr> </table>	Earth	Live	Neutral	E	L	N
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WARNING!!!

Do not connect the unit to a computer when the input section is connected. The input section is not isolated from the communication section.

 External 1A
 SLO BLO Fuse
 Recommended

This product is guaranteed against faulty workmanship or defective material, for a period of 1 (one) year from the date of delivery by INSTROTECH.

INSTROTECH undertakes to replace without charge all defective equipment which is returned during the period of guarantee (transportation costs prepaid) provided there is no evidence that the equipment has been abused or mishandled in any way.

In the interests of continuous product improvement, INSTROTECH reserves the right to alter any specification without prior notice.

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