

## Programmable Indicator for High Voltage / Current Inputs Model DPM-4006 AL



### DESCRIPTION

The Model DPM-**4006 AL** is a 4 digit (-1999 to 9999) LED high quality indicator, specifically designed for AC/DC high voltages (600V) or AC/DC high currents (up to 5A) measurements. The input terminals are of heavy duty type, and the housing is an industry standard DIN 48x96. Options include programmable analogue output & alarm set points up to 4 alarms. The display & analog output is rangeable from the front pushbuttons.

Selected options now feature "Plug & Play" technology, allowing option boards to be ordered separately & field fitted when required.

### FEATURES

- Voltage inputs up to 600V, current inputs up to 5A
- 1/8 DIN enclosure (45 x 92 cut-out), UL 94 V-0 flame retardant, 147mm depth
- Front panel IP 65 / NEMA 4 / UL Type 4 rating, bezel 48 x 96 mm
- -1999 to 9999 display counts, 14.2mm bright red LED display
- Keypad lockout available at no extra charge
- Analogue output option with programmable zero & span
- Meets European EMC directive 89/336/EEC & Low Voltage directive 73/23/EEC
- RS232 & RS485 serial interface options

### OPTIONS

DPM-3001-P AL	2-setpoints (solid-state relays)	DPM-3012 AL	Peak or valley (min or max) hold
DPM-3001-M AL	2-setpoints (electro-mechanical relays)	DPM-3013 AL	RS 232 serial interface
DPM-3002 AL	RS485 serial interface	DPM-3017-P AL	3-setpoints (solid-state relays)
DPM-3003 AL	0 – 20mA / 4 – 20mA analogue output	DPM-3017-M AL	3-setpoints (electro-mechanical)
DPM-3004-P AL	1-setpoint (solid-state relay)	DPM-3018-P AL	4-setpoints (solid-state relays)
DPM-3004-M AL	1-setpoint (electro-mechanical relays)	DPM-3018-M AL	4-setpoints (electro-mechanical)
DPM-3006 AL	Isolated outputs(order with 3002/3/7/13)	DPM-3020 AL	Ultra bright red LED display
DPM-3007 AL	0 – 5V / 0 – 10V analogue output	DPM-3022 AL	Vertical bar graph display
DPM-3008 AL	12 / 24V galvanic isolated DC supply	DPM-3025 AL	Key pad lockout
DPM-3009 AL	Parallel BCD output	DPM-3026 AL	Display hold
DPM-3010 AL	95-265V AC/DC supply		

### SPECIFICATIONS

Accuracy, linearity	:0.5% of F.S., $\pm 1$ count	Operating temp. range	:-10 to +50°C
Internal resolution	:40000 counts	Storage temp. range	:Peak or valley (min or max) hold
Temp. Coefficient	:20 ppm/°C typ.	Warm-up time	:None required
AC measurement	:Root mean square	Relays, electro-mech	:250VAC, 30VDC, 2A
Conversion rate	:6 per second	Relays, solid state	:400V AC/DC, 0.5A
Settling time	:1 second	Analog output accuracy	: 0.1% of F.S., 12 bits
Self test time	:1 – 3 seconds	Current output load	:500 $\Omega$ maximum
Memory retention	:Non-volatile operating	Voltage output load	:1 k $\Omega$ minimum
Option DPM-3006 AL	:1500 V isolation rating	European CE directive	:89/336/EEC, 73/23/EEC

**NOTE:**

For additional safety when measurement high currents, interposing relays are recommended.

**NOTE:**

Most of the above options are factory fitted. Customer / field fitted options are available as "plug & play" boards & software activated options. Contact factory for more information.

**NOTE:**

Option DPM-3009 AL cannot be ordered with any alarm options, or with option DPM-3006 AL, or with option DPM-3022 AL.

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## Programmable Indicator for High Voltage / Current Inputs Model DPM-4006 AL

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## INPUT RANGES

AC or DC measurements for 0-1A, 0-5A & voltage inputs up to 600V.  
The input range must be specified at time of order as there are no user selectable input links.

## POWER SUPPLY

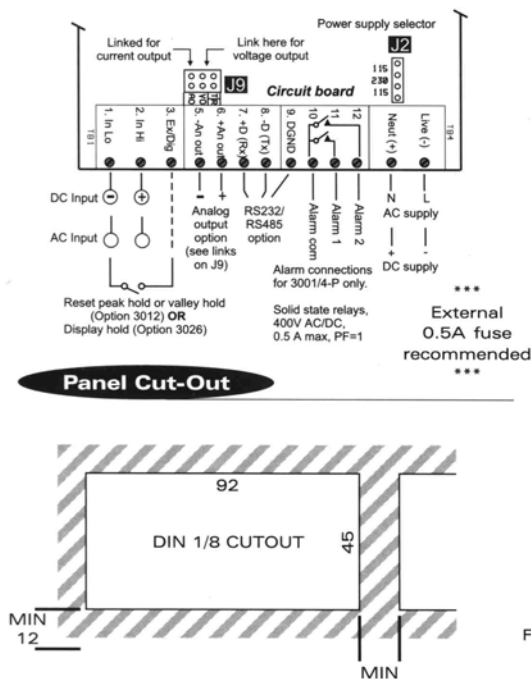
### STANDARD

115 / 230 VAC  $\pm 10\%$  (standard), link selectable, 50/60 Hz, 5VA typical  
12 VDC or 24VDC non-isolated on request, 5VA typical

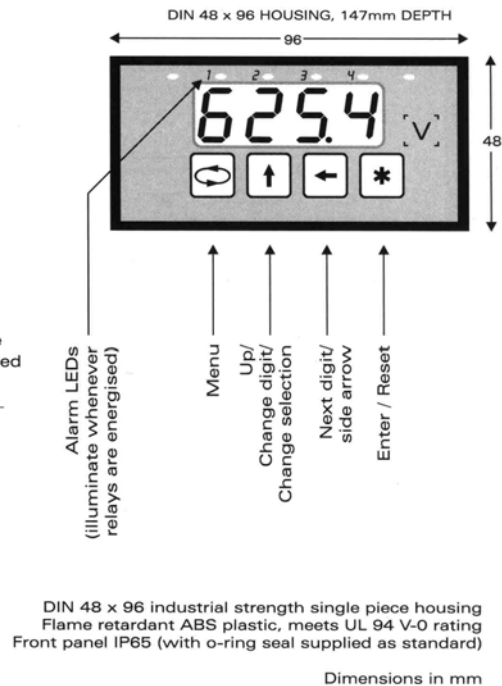
### OPTIONAL

12VDC isolated switch mode power supply option (Option DPM-3008-12 AL), 5VA typical  
24VDC isolated switch mode power supply option (Option DPM-3008-24 AL), 5VA typical  
95V – 265V AC/DC switch mode power supply option (Option DPM-3010 AL), 5VA typical

## CONNECTIONS



## DISPLAY & KEYPAD



## 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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