

# SERIES DMP

## Microprocessor Interface Modules

### Input/Output AC and DC

#### GENERAL DESCRIPTION:

The Crydom Series DMP Input and Output Modules are a family of high performance microprocessor interface switches designed to meet the demands of a rapidly expanding industrial control market. These reliable Crydom I/O modules provide an electrically clean, photo-isolated (4000 VRMS min.), noise-free interface between programmable controllers, microprocessors and computerized machine controls and external elements such as limit switches, thermostats, pressure switches, motors/motor starters, valves and heaters.

The DMP modules have been designed to achieve high performance at a record low cost by utilizing total machine automation and labor-saving state-of-the-art robotics to assemble the entire module. The inherent quality of product consistency is combined with advanced circuit design and innovative packaging.

In a compact vertical mount package, the modules occupy only 0.90 square inches of board space. The entire module is sealed with a skin tight epoxy coating that provides excellent environmental protection while retaining very high heat transfer characteristics, allowing components to run cooler and to perform more reliably.

While physically different, the DMP modules are electrical plug-in replacements for Crydom (similarly numbered) Series 6 modules, as well as competitors' models listed as equivalents.

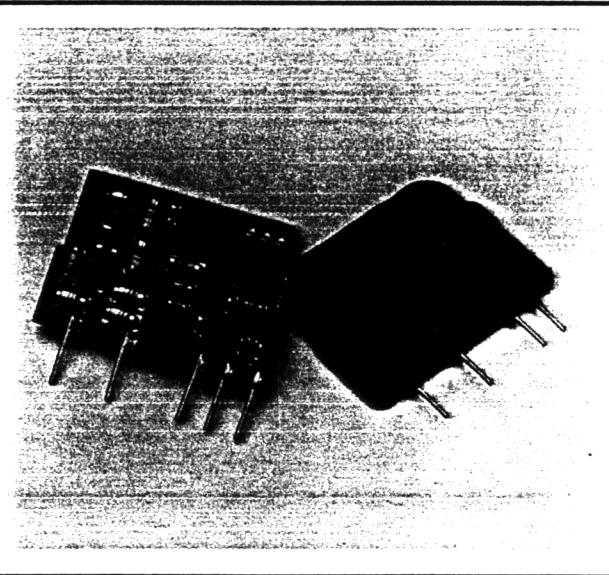
#### INPUT MODULES

The input modules accept power level field control signals and convert them to photo-isolated logic level signals through noise suppression circuitry suitable for input to a microprocessor or logic system.

#### OUTPUT MODULES

Crydom Output Modules accept logic level control signals to switch AC or DC loads up to 3.0 Amps at 45°C ambient temperature. The AC modules have integral snubbers for low power factor loads and also provide zero-voltage switching. DC models incorporate transient voltage suppression.

- UL Recognized, CSA Certified ■
  - Opto-Isolated, 4000 VRMS ■
  - Zero Voltage Switching (AC) ■
  - High Transient Rating ■
  - High Noise Immunity ■
  - Internal Transient Suppression ■
  - High Packaging Density ■
  - Small Footprint ■
  - Compatible with ■
- Microprocessor 5 Volt Logic Systems**



#### Input/Output Modules (and Equivalents)

Model No.	Electrical Equivalents ①	Type	Maximum Load Current/Voltage
DMP6101A	IDC5	DC/IN	25 mA @ 30 VDC
DMP6201A	IAC5	AC/IN	25 mA @ 30 VDC
DMP6202A	IAC5A	AC/IN	25 mA @ 30 VAC
DMP6301A	ODC5	DC/OUT	3.0A DC @ 60 VDC
DMP6402A	OAC5A	AC/OUT	3.0A(RMS) @ 280 VAC

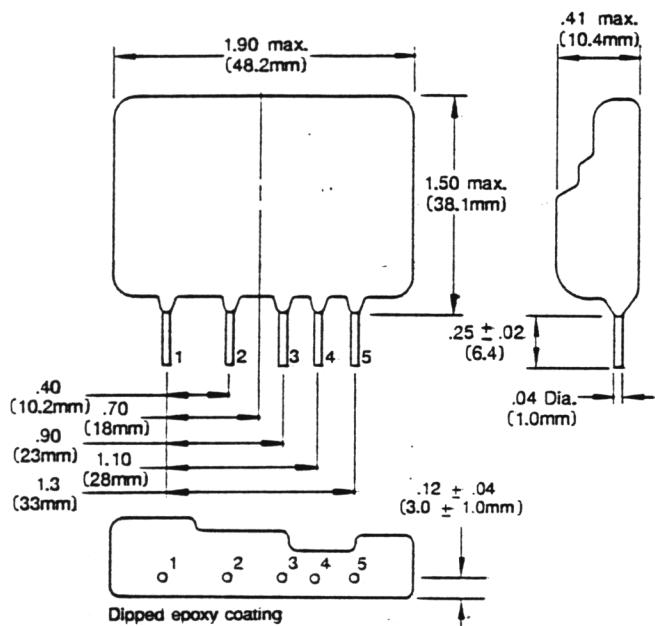
#### General Characteristics

Dielectric Strength @ 50/60 Hz (Input/Output) ①	4000	V(RMS)
Insulation Resistance @ 500 VDC (Input/Output)	10 <sup>10</sup>	Ohms
Max. Capacitance (Input/Output)	8	pF
Ambient	Operating	-40 to 80 °C
	Storage	-40 to 125 °C





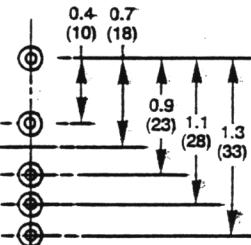
## MECHANICAL SPECIFICATIONS



**Weight:** 0.8 oz. (23 grams)  
**Encapsulant:** Thermally conductive epoxy  
**Pins:** Tin-plated copper  
**Tolerances:** ± 0.020 in. (0.5mm)  
**Dimensions:** Inches (mm).

## PLUG-IN MOUNTING HARDWARE FOR 1/16" PCB

AUGAT SOCKET  
 NO. 8134-HC-12P3  
 PRESSED INTO  
 $0.081 \pm 0.002$   
 IN. DIA. PLATED  
 THRU HOLE  
 OR  
 AMP MIN. SPRING  
 SOCKET NO. 50865-8  
 SOLDERED INTO HOLE  
 $+0.004$   
 $-0.001$  IN. DIA.  
 (5 PLACES)



**Note:** Dimensions in (mm) for reference only.

Data and specifications subject to change without notice.

**CRYDOM**  
COMPANY

### U.S.A.

Crydom Company  
 411 N. Central Ave  
 Glendale  
 CA 91203-2020  
 Phone: (818) 956 3900  
 FAX: (818) 956 3915

### GERMANY

Crydom GmbH  
 Äußere Parkstr. 5  
 D-84032 Altdorf  
 Germany  
 Phone: 0871 935 405  
 FAX: 0871 935 407

### ENGLAND

Crydom Ltd  
 7 Redlands Centre  
 Coulsdon, Surrey  
 CR5 2HT U.K.  
 Phone: 0181 763 0550  
 FAX: 0181 763 0499