

ControlWave[®] PAC Universal Digital Input and Counter Module

The Universal Digital Input (UDI) modules provide the ControlWave PAC with the ability to monitor and control various digital input field signals. The following UDI module is available for the ControlWave PAC:

- 6 Universal Digital Input Module and Counter (UDI)

All I/O modules have surge protection that meets IEEE C37.90-1978 and IEC 801-5 specifications.

6 Universal Digital Input Module and Counter (UDI)

The 6-point Universal Digital Input Module and Counter (UDI) provides the ControlWave PAC with 6 inputs which you can individually configure as high speed counters or polled inputs. UDI module is available with either a terminal board assembly for local termination or a header block assembly for remote termination.

Each input has an electrical isolation of 500 Vdc to chassis and 1500 Vdc to system logic. The surge protection is from a 31 Vdc transorb (across input and to field common) that meets ANSI/IEEE standard C37.90-1978.

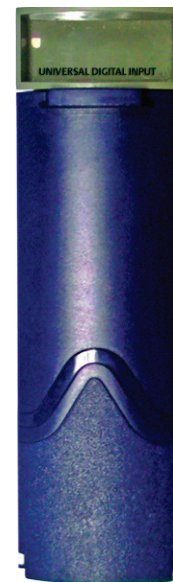
Local or Remote Terminations

I/O modules available are factory configured for either local terminations that consist of one 40-point terminal block assemblies or remote terminations that consist of 4 DIN-rail mountable terminal blocks mass termination headers. Terminations are pluggable and accept a maximum wire size of 14 AWG (American Wire Gauge).

I/O modules are designed to maximize usability while minimizing installation, maintenance, and system

downtime costs. A pull down door provides front panel wiring terminal access for technicians. The bezel and the terminations can be easily removed from the I/O module to make wiring even easier.

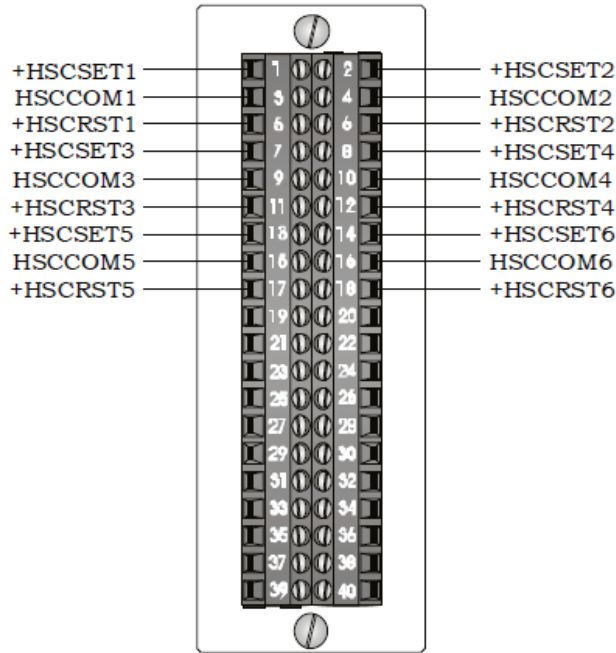
Remote terminations provide a convenient alternative to the standard direct connect termination. Remote terminations allow a concentration of electrical connections from one or more controllers to be located in a single area. For more information on remote terminations or terminal blocks, refer to *Product Data Sheet CWPAC*.



Universal Digital Input Module

6 Universal Digital Input Module and Counter (UDI)

Field Wiring Terminals



Inputs

Quantity	6
Type	Polled DI and High-Speed Counter or Low-Speed Counter Internally or externally sourced 24 Vdc
Connector	Terminal block or remote termination
Bus Access	16-bits wide
Frequency Range	0 to 10 kHz
Input Voltage Range	24 Vdc
Debounce	User-selectable debounce circuitry
Input Current	5 mA ± 10%
Input Filtering	Software configurable 20 µs for high speed counter 1 ms for low speed counter 30 mss for contact closure interruptible DI
Electrical Isolation	1500 Vdc to system logic and 500 Vdc to chassis
Surge Suppression	31 Vdc transorb across input and to field common
Status Indicator	LED per point status and module OK/FAIL LED
Status Indication	Status LED per input, module PASS/FAIL LED

Power

Input Voltage Range	Backplane powered
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Physical

Dimensions 177.8 mm H x 46.2 mm W x 165.1 mm D (7 in. H x 1.82 in. W x 6.5 in. D)

Weight 0.50kg (1.1 lbs.)

Wiring Up to 14 American Wire Gauge (AWG) local terminations or optional remote terminations

Environmental

Same as the ControlWave PAC in which it is installed

Approvals

Same as the ControlWave PAC in which it is installed

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