

HIMOS SERIES / HI301P — HI301



CONNECTIONS



COM 1 COM 2 24V DC Supply

MODEL

	HI301P/HI301
DISPLAY	128 x 64 pixel (3")
KEYS / LEDS	18/4
DIGITAL INPUTS	16
DIGITAL OUTPUTS	2
RELAYS OUTPUTS	10
ANALOGUE INPUTS	-
ANALOGUE OUPUTS	-
DIMENSIONS	101 x 183 x 37 mm

OPERATION

The Microsoft Windows® based configuration software, *HIMOSOFT*, helps user to configure HIMOS unit. 'Configuration' means making the HIMOS unit work as per the system requirements. For example, HIMOS can be configured to be used with any PLC, display any register data, perform any controlling action depending on digital or analog inputs.

HIMOS Keys can be configured to realize different tasks as for example execution of a ladder program, activate/deactivate coils or outputs, operations between registers, etc.

Alarms can be defined to constantly monitor any register. When alarm condition is reached, the respective alarm is displayed in alarm window.

Screens can be controlled by any system register. Tasks can be defined to realize these operations.

DESCRIPTION

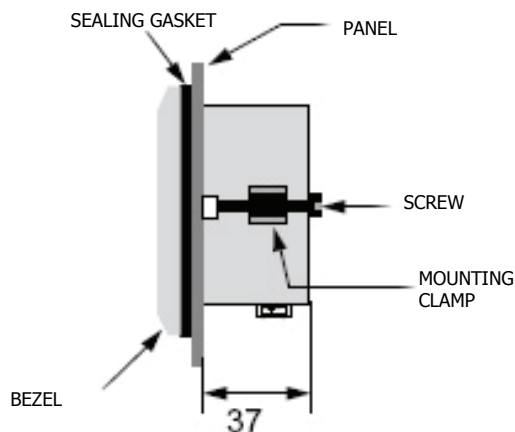
The HIMOS unit has both HMI capabilities as well as programmable logic features. The user can implement PLC logic using standard ladder logic programming. The HIMOS unit has four high speed counters (25 kHz each), hundreds of timers and counters, thousands of internal coils, retentive and non retentive memory registers and PID functionality.

HI301 model has 16 digital inputs, 2 digital outputs and 10 relays outputs. The number of I/O can also be expanded through the use of remote I/O modules.

HI301 has 2 serial communication ports. Direct connection to Modbus RTU protocol and other opened protocols and to most of PLC's. They can communicate with two different PLC's simultaneously.

PLC task can be executed on power up, during continuous scanning, when a specific screen is showing, or when a specific wizard event occurs. Allows local or global assignation of keys to macros for key processes. Development tool *HIMOSOFT*, valid for all the HIMOS Series, is available (free download) on our website www.ditel.es.

MOUNTING



PANEL CUTOUT: 77 X 163 mm ±0.5 mm

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GENERAL TECHNICAL CHARACTERISTICS

HIGH SPEED COUNTERS	
Number of Counters	4
Resolution	32 bit
Maximum Frequency	25kHz @ 24V DC
Minimum Pulse	20 microseconds
DIGITAL INPUTS	
Input Voltage	24V DC (28V Max.)
Input Impedance	Normal: 4K7 Ω @ 24V DC High Sp.: 2K3 Ω @ 24 V DC
Logic "0" Voltage	0 a 4 V
Logic "1" Voltage	14 a 28V
Input Current (@24V)	Normal: 4,89 mA High Speed: 10 mA
DIGITAL OUTPUTS	
Outputs type NPN (HI301)	2 Open Collector + 10 Relays
Output Current	300mA (Relay 2A)
On Voltage Drop	0,4 V DC
Outputs type PNP (HI301P)	2 Open Collector + 10 Relays
Output Current	300mA (Relay 2A)
On Voltage Drop	0,4 V DC
DISPLAY	
Type	Monochrome graphical Backlit LCD 128 x 64 pixel (3")
COMMUNICATION	
Number of Ports	2
Type	RS232/RS485/RS422/CMOS
MEMORY	
Total Memory	512 kB
Application Memory	120 kB
Ladder Memory	62 kB
Data Registers	1000
Retentive Registers	1400
System Registers	64

System Coils	100
Internal Coils	5000
Input Coils	100
Output Coils	100
Internal Registers	313
Input Registers	7
Output Registers	7
Timer Registers	128
Counter Registers	178
POWER SUPPLY	
Voltage Rating	24V DC \pm 10%, 3W Max
MISCELLANEOUS	
Battery	Coin Type, 3v Lithium 614-CR-1225FH
Battery Backup	Min. 5 years for RTC and System Data
Operating Temperature	0° a 50 °C
Storage Temperature	-25° a 80 °C
Mounting Method	Panel Mounting
Clock (RTC)	Real Time Function (Date & Time)
Humidity	10% to 90% (Non condensed)
Immunity to ESD	Level 3 (IEC1000-4-2)
Immunity to transients	Level 3 (IEC1000-4-4)
Immunity to Radiated RF	Level 3 (IEC1000-4-3)
Immunity to conducted RF	Level 3 (IEC1000-4-6)
Emission	EN55011 CISPR-A
Front Panel Protection	IP65



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