DESIGN PROPOSAL

8 X 40 CHARACTER MODULE.

AUTHOR FOR   NAME:
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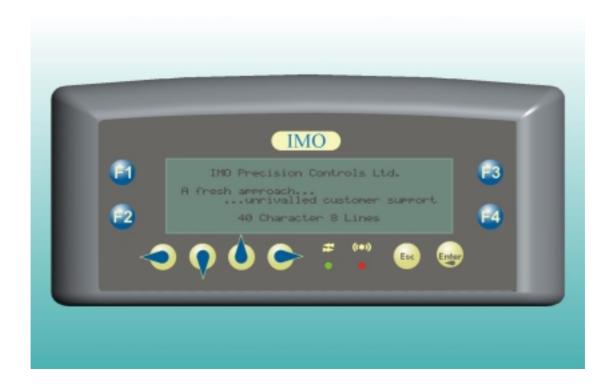   DATE:

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W013_DP_03

Specification	Description
Display	8 lines by 40 character FSTN. Character height approx. 6mm
− *Backlight*	Reflective or LED backlight options. LED backlight option is permanently on.
− *Window*	Clear Polyester with anti-glare finish. No polycarbonate window behind membrane.
− *Contrast control*	Contrast adjustment via software, including temperature compensation.
Processor	16 bit Intel 186 architecture compatible.
Power Supply	Wide input DC (9 to35V). No AC input capabilities. Protection provided for reverse polarisation.
− *Connection*	Physical connection for power source is via screw terminals accessible at rear of enclosure.
Memory	
− *FLASH*	128K / 512K bytes. Used to hold firmware, database and protocols.
− *SRAM*	32K / 128K bytes solely for variable data. The SRAM is volatile with no support for battery backup capabilities.
Serial Ports	Two serial ports, accessible at rear of enclosure via standard 9-way female D-type connectors. Each serial port shall be software configurable to support RS232 and both 2-wire and 4-wire RS485 / RS422, including multi-drop.
Parallel Port	Single printer port, accessible at rear of enclosure via a standard 25-way male D-type connector.
RTC	Battery backed real time clock.
Membrane	
− *Keys*	A total of 10 tactile membrane keys, using chemically resistant Polyester. The keys will consist of the following: 6 keys for system navigation: − 4 direction keys; up, down, left and right. − Escape. − Enter. 4 keys for user programmable functions. These keys are not re-legendable.
− *Expanded keyboard*	Option for product variant with extended number of keys. To provide full range of alpha-numeric keys (10 keys, telephone style) and 8 additional user programmable function keys (relegendable)
− *Status Indicators*	2 LEDs provided on membrane: − Serial port activity. − User configurable alarm.
Sounder	Internal buzzer provided for key presses and other alternative events, as determined by application software.
Expansion	Expansion capabilities.
Enclosure	Two part plastic injection moulded case.
− *Dimensions*	10 key version: approx. 240mm x 110mm x 75mm 28 key version: approx. 240mm x 160mm x 100mm
− *Weight*	10 key version: approx. 500g 28 key version: approx 750g
− *Mounting*	Panel mounting. No mounting studs, unit fixed into place using clips.
Environmental	
− *Temperature*	Operating 0 – 50C, non-operating –20 to 60C
− *Relative Humidity*	5 to 90%.
− *Vibration*	Operating 5 to 250Hz 1G.
− *Enclosure*	Designed to meet IP65 / NEMA4/12 in front of panel only.
CE compliance	
− *Emissions*	EN50081-1 Class A radiated and conducted emissions.

− *Immunity*	EN50082-1 Light industry immunity.
− *Safety*	EN60950 Low Voltage Directive.