

DESIGN PROPOSAL
2 X 20 CHARACTER MODULE.

AUTHOR FOR

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Specification	Description
Display	2 lines by 20 character FSTN. Character height approx. 6mm
– <i>Backlight</i>	Reflective or LED backlight options. LED backlight option is permanently on.
– <i>Window</i>	Clear Polyester with anti-glare finish. No polycarbonate window behind membrane.
– <i>Contrast control</i>	Manual adjustment via potentiometer accessible from rear of enclosure. No 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.
– <i>Connection</i>	Physical connection for power source is via screw terminals accessible at rear of enclosure.
Memory	
– <i>FLASH</i>	128K bytes. Used to hold firmware, database and protocols.
– <i>SRAM</i>	32K bytes solely for variable data. The SRAM is volatile with no support for battery backup capabilities.
Serial Ports	Single serial port, accessible at rear of enclosure via a standard 9-way female D-type connector. Serial port shall be software configurable to support RS232 and both 2-wire and 4-wire RS485 / RS422, including multi-drop.
RTC	No real time clock option.
Membrane	
– <i>Keys</i>	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.
– <i>Expanded keyboard</i>	No option for product variant with extended number of keys.
– <i>Status Indicators</i>	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	No expansion capabilities.
Enclosure	Two part plastic injection moulded case.
– <i>Dimensions</i>	Approx. 150mm x 85mm x 50mm
– <i>Weight</i>	Approx. 300g
– <i>Mounting</i>	Panel mounting. No mounting studs, unit fixed into place using clips.
Environmental	
– <i>Temperature</i>	Operating 0 – 50C, non-operating –20 to 60C
– <i>Relative Humidity</i>	5 to 90%.
– <i>Vibration</i>	Operating 5 to 250Hz 1G.
– <i>Enclosure</i>	Designed to meet IP65 / NEMA4/12 in front of panel only.
CE compliance	
– <i>Emissions</i>	EN50081-1 Class A radiated and conducted emissions.
– <i>Immunity</i>	EN50082-1 Light industry immunity.
– <i>Safety</i>	EN60950 Low Voltage Directive.

