

DESIGN PROPOSAL
WINDOWS CE OPERATOR TERMINALS

AUTHOR FOR WATERSIDE SOLUTIONS.

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Specification	Description
Display Variants	<ul style="list-style-type: none"> – 320 x 240 pixel (1/4 VGA) colour STN. – 640 x 240 pixel (1/2 VGA) colour STN. – 640 x 480 pixel (VGA) colour STN.
– <i>Backlight</i>	Reflective or CCFL backlight option.
– <i>Window</i>	Clear Polyester with anti-glare finish.
– <i>Contrast control</i>	Contrast adjustment via software, including temperature compensation.
Operating System	Windows CE 3.0™
Processor	32 bit embedded processor based on RISC CPU.
Power Supply	24VDC. No AC input capabilities. Protection provided for reverse polarisation.
– <i>Connection</i>	Physical connection for power source is via two-part screw terminal connector accessible at rear of enclosure.
Memory	
– <i>DRAM</i>	Upto 32MB of EDO DRAM or SDRAM
– <i>FLASH</i>	Upto 8MB of FLASH data storage.
Serial Ports	Two serial ports, each 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.
Printer Port	Single printer port, accessible at rear of enclosure via standard 25-way D-type connector.
RTC	Battery backed real time clock.
Membrane	
– <i>Keys</i>	<p>A total of 10 tactile membrane keys, using chemically resistant Polyester. The keys will consist of the following:</p> <p>6 keys for system navigation:</p> <ul style="list-style-type: none"> – 4 direction keys; up, down, left and right. – Escape. – Enter. <p>4 keys for user programmable functions. These keys are not re-legendable.</p>
– <i>Expanded keyboard</i>	Option for product variant with extended number of keys. To provide full range of alpha-numeric keys (10 keys, telephone style) and 12 additional user programmable function keys (relegendable)
– <i>Status Indicators</i>	<p>2 LEDs provided on membrane:</p> <ul style="list-style-type: none"> – Serial port activity. – User configurable alarm. – Expanded keyboard version to also provide a software configurable bi-colour LED on each of the 8 programmable function keys.
Touch Screen	Rugged analogue resistive touch screen overlay.
Connectivity	
– <i>Ethernet</i>	100/10 Base-T auto-sensing Ethernet interface.
– <i>USB</i>	Universal serial bus interface for peripheral connectivity.
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.
– <i>Dimensions</i>	<p>10 key variant estimated 250mm x 200mm x 100mm</p> <p>32 key variant estimated 250mm x 250mm x 100mm</p>
– <i>Weight</i>	<p>10 key variant approx. 1kg</p> <p>32 key variant approx 1.25kg</p>
– <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.

