

Control Panel VARAN ETV 1921



with 19" SXGA TFT color display

The ETV Control Panel combines control, operation and visualization in a single unit. Local as well as decentralized I/O systems can be connected over the VARAN bus and therefore not bound to a specific topology when constructing your system.

The available interface connections can be programmed completely from the application. The internal CompactFlash card serves as a storage medium for the operating system, application and application data. Naturally, the panel can also be configured with the LASAL SCREEN Editor.

Performance Data Touch Unit

Processor	AMD Geode LX 800
Cache	128-kbyte 1 st Level 128-kbyte 2 nd Level
BIOS	INSYDE BIOS
SDRAM (SO-DIMM 200-pin)	128-Mbyte SDRAM (up to 512-Mbyte optional) (16-Mbyte „shared memory“ for the graphic controller)
CompactFlash (Type I)	64-Mbyte (size optional)
SRAM	512-kbyte (battery buffered)
Interfaces	1x CAN bus 1x DIAS bus 2x VARAN bus 1x Ethernet 10/100 Mbit 2x USB V2.0 Type-A (front and backside)
Internal interface connections and devices	1x TFT color display and inverter 1x Touch 1x CompactFlash socket
Control panel	touch screen (analog resistive)

Display	19" TFT color display SXGA, 1280 x 1024 pixels
Data buffer	lithium battery
Signal generator	yes
Real-time clock	yes
Cooling	passive (fanless)

Electrical Requirements

Supply voltage	minimum +18 V DC	maximum +30 V DC
Current consumption of voltage supply	typically 1.7A (at +24 V) (no external modules connected)	
Inrush current	maximum 20 A for < 5 ms	

Terminal

Dimensions	452 mm x 384 mm x 58 mm (W x H x D)	
Material	cover: 1 mm sheet steel, chromated (alkaline blue)	front plate: 6 mm aluminum, anodized (natural CO)
Weight including mounting brackets	typically 10kg	

Control Unit

Touch screen	analog resistive glass touch panel
Active surface	376.3 mm x 301.1 mm
Resolution	12-bit (4096 x 4096)
Signal generator	yes

Display

Type	19" TFT color display
Resolution	SXGA, 1280 x 1024 pixels
Color depth	18 bits (262 x 144 colors)
Pixel size	0.294 mm x 0.294 mm
Active surface	376.3 mm x 301.1 mm
Backlight	4 cold cathode tubes (CCFT, switchable)
Contrast	typically 1300 : 1
Brightness	typically 300 cd/m ²
Angle CR > 10	left and right 89°, above 89° and below 89°

Article Number and Miscellaneous

Article number	12-230-1921
Hardware version	1.x
Standard	UL (E247993)
Software macro	LSE LASAL operating system

Environmental Conditions		
Storage temperature	-20 ... +60 °C	
Operating temperature	0 ... +45 °C	
Humidity	10-90 %, non-condensing	
EMC tolerance	EN 61000-6-2 (industrial area): EMC resistance noise emission	
Vibration tolerance	EN 60068-2-6	2-9 Hz: amplitude 3.5 mm 9-200 Hz: 1 g (10 m/s²)
Shock resistance	EN 60068-2-27	15 g (150 m/s²), duration 11 ms, 18 shocks
Protection type	EN 60529: protected through the housing	front: IP54 cover: IP20

Notes

