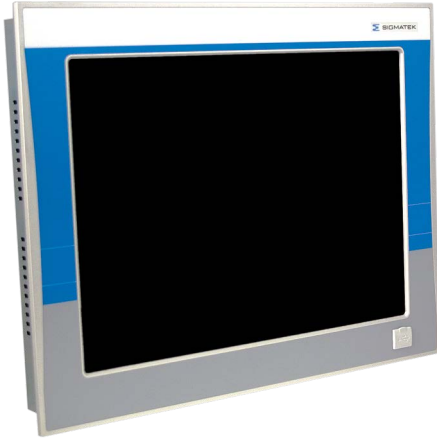


# Control Panel VARAN ETV 1521



with 15" XGA 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 <sup>st</sup> Level 128-kbyte 2 <sup>nd</sup> Level
BIOS	INSYDE BIOS
SDRAM (SO-DIMM 200-pin)	128-Mbyte (optional to 512-Mbyte) (16-Mbyte „shared memory“ for the graphic controller)
CompactFlash (Type I)	1-Gbyte
SRAM	512-kbyte (battery buffered)
Interfaces	1x CAN bus 1x DIAS bus 2x VARAN bus 1x Ethernet 10/100 Mbit 2x USB V1.1 Type-A (front and back)
Internal interface connections and devices	1x TFT color display and inverter 1x Touch 1x CompactFlash socket
Control panel	touch screen (analog resistive)

Display	15" TFT color display XGA, 1024 x 768	
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 1.1 A (at +24 V) (with no external devices connected)	
Inrush current	maximum 20 A for < 5 ms	

## Terminal

Dimensions	380 mm x 310 mm x 49 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 4.9 kg	

## Control Unit

Touch screen	analog resistive film-glass touch panel	
Active surface	304.1 mm x 228.1 mm	
Resolution	12-bit (4096 x 4096)	
Signal generator	yes	

## Display

Type	15" TFT color display	
Resolution	XGA, 1024 x 768 pixels	
Color depth	18 bits (262 x 144 colors)	
Pixel size	0.297 mm x 0.297 mm	
Active surface	304.1 mm x 228.1 mm	
Backlight	2 cold cathode tubes (CCFT, switchable)	
Contrast	typically 700 : 1	
Brightness	typically 350 cd/m <sup>2</sup>	
Angle CR > 10	left and right 70°, above 65° and below 60°	

## Article Number and Miscellaneous

Article number	12-230-1521	
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	10-95 %, 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/s <sup>2</sup> )
Shock resistance	EN 60068-2-27	15 g (150 m/s <sup>2</sup> ), duration 11 ms, 18 shocks
Protection type	EN 60529: protected through the housing	front: IP54 cover: IP20

### Notes

