

Control Panel VARAN ETV 0551



with 5.7" VGA TFT color display
8 digital inputs
8 digital outputs

The ETV Control Panel with EDGDE Technology 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. A microSD card serves as the storage medium for the operating system, application and application data. Naturally, the panel can also be configured with the LASAL SCREEN Editor.

Performance Data

Processor	EDGE Technology X86 compatible
Internal cache	32-kbyte L1 cache 256-kbyte L2 cache
BIOS	AMI
Internal program and data memory (DDR2 RAM)	64-Mbyte
Internal remnant data memory	512-kbyte
Internal storage device (IDE)	512-Mbyte microSD
Interfaces	2x USB Type A 2.0 (full speed 12 Mbit/s) 1x USB Type Mini B 1.1 1x Ethernet 1x VARAN Out (Manager) 1x CAN bus
Internal interface connections and devices	1x TFT LCD color display 1x Touch
Control panel	4-wire touch screen (analog resistive)
Display	5.7" TFT color display 640 x 480 pixels
Data buffer	yes

Signal generator	no
Real-time clock	yes
Cooling	passive (fanless)

Electrical Requirements

Supply voltage	typically +24 V DC	
	minimum +18 V DC	maximum +30 V DC
Current consumption Power supply +24 V	typically 335 mA (without externally connected devices)	maximum 610 mA (with externally connected devices)
Inrush current	maximum 28 A for 20 µs	

Terminal

Dimensions	180 x 135 x 40 mm (W x H x D)
Material	front plate: 3.5 mm anodized aluminum
Weight	650 g

Control Unit

Touch panel	analog resistive film-glass touch panel
Resolution	12-bit (4096 x 4096)

Display

Type	5.7" LCD color display
Resolution	VGA, 640 x 480 pixels
Color depth	18-bit RGB (262K colors)
LCD mode	TN/normal white
LCD polarizer	transmissive
Pixel size	0.18 mm x 0.18 mm
Active surface	115.2 mm x 86.4 mm
Backlight	LED
Contrast	typically 600 : 1
Brightness	typically 350 cd/m²
Viewing angle CR > 10 from	left, right, below 75°, above 60°

Digital Outputs		
Number	8	
Short-circuit proof	yes	
Maximum continuous current load allowed per channel	2 A	
Maximum total current (all 8 channels)	6 A (100 % of on time)	
Voltage drop over power supply (output active)	≤ 1 V	
Residual current (output inactive)	≤ 12 µA	
Turn-on delay	< 400 µs	
Turn-off delay	< 400 µs	
Maximum breaking energy braking energy of inductive loads	1 channel 0.12 [Joules]	

Digital Inputs		
Number	8	
Input voltage	typically +24 V	maximum +30 V
Signal level	low: < +4.5 V	high: > +14 V
Switching threshold	typically +11 V	
Input current	typically 5 mA at +24 V	
Input delay	typically 5 ms	

Article Number and Miscellaneous		
Article number	12-230-0551	
Hardware version	1.x	
Standard	UL 508 (E247993)	

Environmental Conditions		
Storage temperature	-25 ... +85 °C	
Environmental temperature	0 ... +50 °C	
Humidity	10-90 %, non-condensing	
EMC stability	EN 61000-6-2: 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	150 m/s²
Protection type	EN 60529: protected through the housing	front: IP54 cover: IP20

Notes