



OVERVIEW

The SVI unit (Smart Visualization Interface) is a general-purpose and fully programmable controller designed to be a versatile Man Machine Interface and master unit in automotive environment. The unit is easy to program (using the GUIBuilder® e MBP® tools) and even easier to connect using the wide number of communication interfaces (CAN-Bus, USB, RS232, RS422, RS485). The aluminum front panel and the stainless-steel case ensure very good EMC compatibility, mechanical strength and environmental protection. Furthermore, the unit can be equipped with internal GSM/GPRS and GPS modules.

SPECIFICATIONS

- CPU: Fujitsu 16 bit, 24MHz
- Flash memory: 512 kByte (internal) + 8 MByte (external)
- SRAM memory: 20 kByte (internal) + 1 MByte (external, protected by a rechargeable battery)
- EEPROM memory: 32 kByte
- Real Time Clock (RTC)
- Internal rechargeable lithium battery (for external SRAM and RTC)
- 5" 240x128 pixel transfective display, yellow / green backlight
- Automatic contrast regulation (internal NTC sensor)
- Software controlled LED backlight

CONNECTIVITY

- 1 RS232/RS422/RS485 (configurable) serial interface with galvanic isolation
- 1 RS232 serial interface (full)
- 2 RS232 serial interfaces (RX/TX only)
- 1 USB 1.1 Device for connection to a Personal Computer
- 1 USB 1.1 Host for USB key connection
- 2 full CAN-bus 2.0B (11 or 29 bit ID), programmable baud-rate from 125Kbit/s to 1Mbit/s, CANOpen and J1939 protocols (optional: ISOBUS).

OUTPUTS

- 2 PWM high-side (2A max.) outputs, with self diagnosis and short circuit protection
- 2 constant current sources (1.68mA) for the direct handling of resistive sensors (PT100, PTC, NTC, etc.)
- 5Vdc regulated power supply output for external sensors

INPUTS

- 4 digital inputs configurable via software as high-active or low-active, also usable as RPM/frequency inputs (up to 2KHz)
- 2 analog inputs with programmable range (0..20mA, 0..5V)
- 2 analog high-sensibility voltage inputs (0..400mV)
- Keyboard up to 25 keys (5x5 matrix)

OPTIONALS (*)

- Modem GSM/GPRS con with optional hand-free set
- GPS

(*): mounted on an additional expanding board

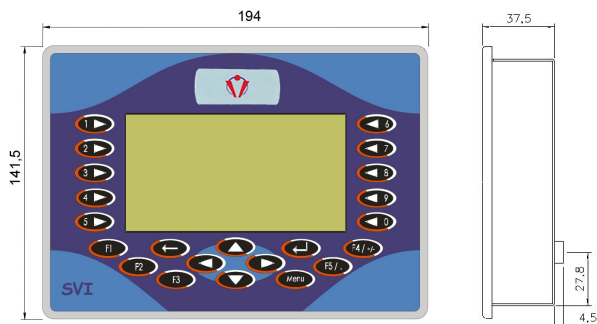
OPERATING CONDITIONS

- Supply voltage: 9 .. 32Vdc
- Operating temperature range: -40 °C .. +70 °C
- Storage temperature range: -40 °C .. +85 °C
- Max. humidity level: 95% (without condensation)
- Protection grade: IP65 (with connector plugged)
- Typical current consumption at 24V: 0.5A (outputs switched off)

CERTIFICATIONS

- UNECE n. 10 rev. 3: E3 10R-03 1155

MECHANICAL DRAWING



- Mounting hole: 182 x 130 mm
- Depth (without connector): 40 mm
- Depth (rear connector plugged, no connector housing): 30 mm
- Depth (rear connector plugged): 67 mm
- Rear mounting bracket size: 193 x 143 x 35 mm