



DATA SHEET

Si-ATE320

Flush-mount display



Display of 1 to 3 parameters



Graphic Touch display



Visual and acoustic alarms

FEATURES

- RS485 MODBUS protocol communication
- IP 66, VHP* resistant
- 30 pre-programmed units and custom units

The **flush-mount displays** are a good solution to integrate the **visualisation of the parameters** measured by other sensors/transmitters into a single display device and, simultaneously, transfer these measurements to a BMS or Scada through modbus RTU.

EXAMPLES OF APPLICATION



Critical environments that require accurate monitoring of differential pressure and other key air parameters (clean rooms, operating rooms, labs, production sites...)



Air parameters monitoring (in glove boxes, fume hoods, isolation cabinets, liquid filling machines...)



Monitoring the differential pressure, relative humidity/temperature and environmental CO₂ levels in laboratories where incubators are used

TABLE OF THE PRE-PROGRAMMED UNITS

Domain	Units	Resolution
Pressure	Pa, mmH ₂ O, inwg, mbar, mmHg, daPa, kPa, hPa	1 / 0.1 / 0.01 / 0.001 / 0.0001 / 0.00001
Hygrometry	%RH, g/m ³ g/kg, kJ/kg, °C _{td} , °F _{td} , °C _{tw} , °F _{tw} , °C _{tf} , °F _{tf}	
Temperature	°C, °F	
Air velocity	m/s, fps	
Airflow	m ³ /h, l/s, m ³ /s, dam ³ /h, cfm	
Gas concentration	ppm, ppm, ppb	
Air change rate	ACH	

*Vaporized Hydrogen Peroxide

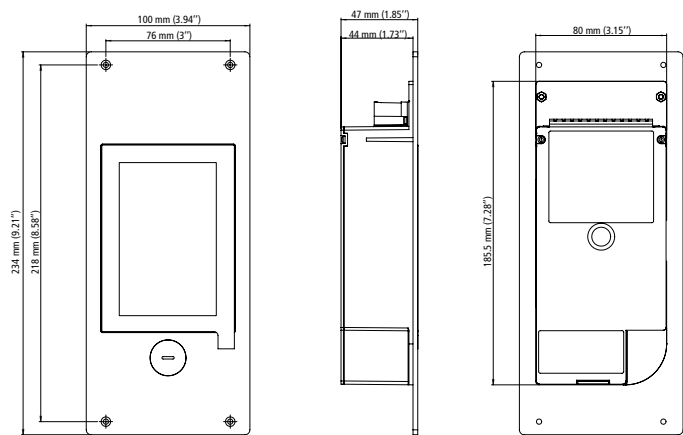
GENERAL FEATURES

Power supply		24 V _{AC} / V _{DC} ±10%
		Warning: risk of electric shock 
Consumption	15 VA	
Electrical connections	Screw terminal block for cables from 0.05 to 1.5 mm ² or from 30 to 16 AWG Carried out according to the code of good practices	
RS485 communication	Modbus RTU protocol, configurable communication speed from 2400 to 115,200 Bauds	
Input	x3 modbus RTU protocol inputs	
Output	x1 modbus RTU protocol output	
Audible alarm	Buzzer (60 dB at 10 cm)	
Environment and type of fluid	Air and neutral gases	
Conditions of use (°C/%RH/m)	From -10 to 50 °C (14 to 122 °F) In non-condensing conditions From 0 to 2000 m (0 to 6561')	
Storage temperature	From -10 to 70 °C (14 to 158 °F)	
Security	Protection class 2 - Pollution degree 2 - Overvoltage category 2	
European directives	2014/30/EU EMC - 2014/35/EU Low Voltage - 2015/863 EU (RoHS 3) - 2012/19/EU WEEE	

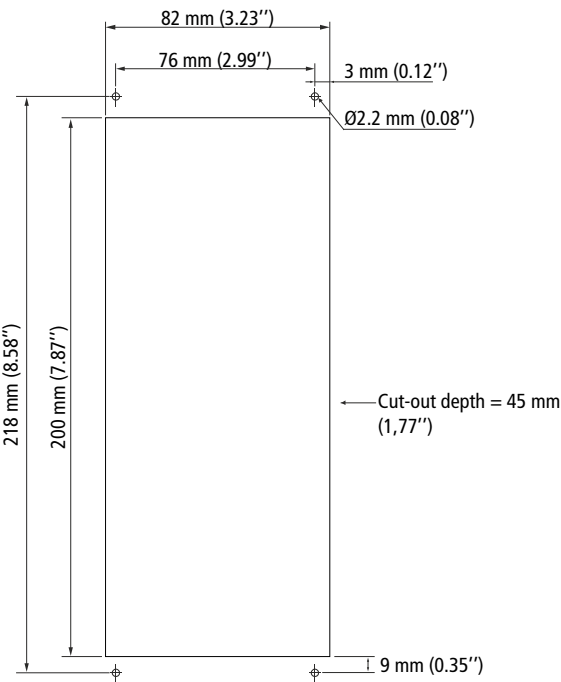
FEATURES OF THE HOUSING

Front face	Brushed stainless steel 316 L	
Back housing	ABS V0	
Protection	IP66 in front face, resistant against VHP	
Display	Graphic touchscreen Size: 480 x 272 pixels	
Height of the digits	14 mm (0.56")	
Weight	700 g (1.54 lb)	

DEVICE DIMENSIONS



MOUNTING TEMPLATE



ALARMS

The Si-ATE320 flush-mount displays have visual alarms that are independent and configurable.

Available settings are the followings:

- Time-delay duration: from 0 to 600 s
- Threshold values
- Action of the alarm: rising edge, falling edge or monitoring

INNOVATIONS

Front face computer connection



ACCESSORIES

Designation	Sales reference	Description
Si-ACC-USB-CC	27998	USB-mini DIN interface for connecting of the class 320 transmitters to the configuration PC software.
KI-AL-750-A	24709	Class 2 power supply. DIN rail mounting. Input voltage: 230 V _{AC} . Output voltage: 24 V _{AC} . Nominal power 18 VA, intensity 750 mA.
KI-AL-1000-C	13973	Class 2 stabilized power supply. Mounting with integrated brackets. Input voltage: 230 V _{AC} . Output voltage: 24 V _{DC} . Nominal power: 24 VA. Intensity: 1 A.



Only the accessories supplied with the device must be used.

KIT CONTENT

- Si-ATE320
- Quick Start Guide
- Screws

DESIGNATION

Designation	Sales reference	Description
Si-ATE320	27982	Panel display with touchscreen display and 2x RS485 interface. Displays measurements provided by Sauer mann transmitters with Modbus RTU or by transmitters connected to a Sauer mann converter. IP66 stainless steel.

More information about this product



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