# KIMO® INSTRUMENTS

**TOUCH SCREEN**

# 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, prodution sites...)

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

Monitoring the differential pressure, relative humidity/temperature and environmental $CO_2$ levels in laboratories where incubators are used

### TABLE OF THE PRE-PROGRAMMED UNITS

| Domain | Units | Resolution |
|---|---|---|
| **Pressure** | Pa, $mmH_2O$, inwg, mbar, mmHg, daPa, kPa, hPa | |
| **Hygrometry** | %RH, g/m³ g/kg, kJ/kg, $°C_{td}$, $°F_{td}$, $°C_{tw}$, $°F_{tw}$, $°C_{tf}$, $°F_{tf}$ | |
| **Temperature** | °C, °F | 1 / 0.1 / 0.01 / 0.001 / 0.0001 / 0.00001 |
| **Air velocity** | m/s, fps | |
| **Airflow** | m³/h, l/s, m³/s, dam³/h, cfm | |
| **Gas concentration** | ppm, ppm, ppb | |
| **Air change rate** | ACH | |

*Vaporized Hydrogen Peroxide

## GENERAL FEATURES

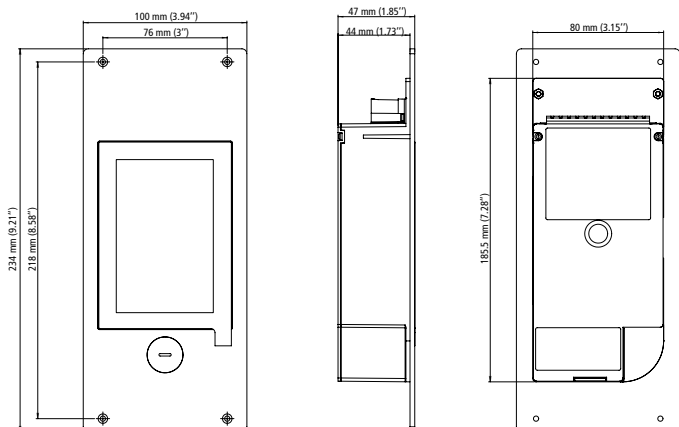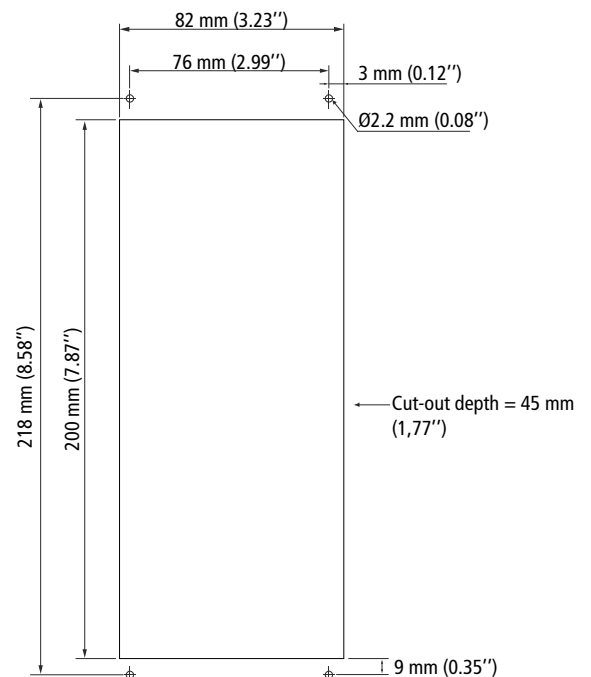| | |
|---|---|
| **Power supply** | 24 $V_{AC}$ / $V_{DC}$ ±10%<br>Warning: risk of electric shock |
| **Consumption** | 15 VA |
| **Electrical connections** | Screw terminal block for cables from 0.05 to 1.5 mm² or from 30 to 16 AWG<br>Carried out according to the code of good practices |
| **RS485 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)<br>In non-condensing conditions<br>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<br>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**



**Mini-DIN connection**

**USB 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 $_{VAC}$. 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 Sauermann transmitters with Modbus RTU or by transmitters connected to a Sauermann converter. IP66 stainless steel. |

**More information about this product**



# Kimo, a Sauermann brand.

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