

EVC95K29N7XXX01 Digital controller for suction hoods (user interface EVC99T00X0XXX05 + control module EVC95P29N7XXX01)

ENGLISH GETTING STARTED

1.1 Important

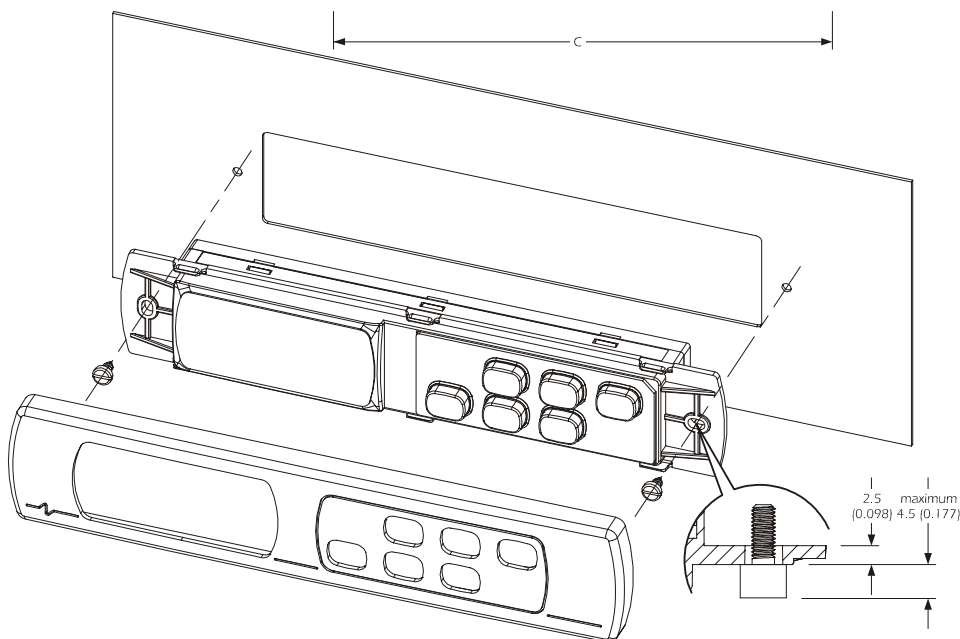
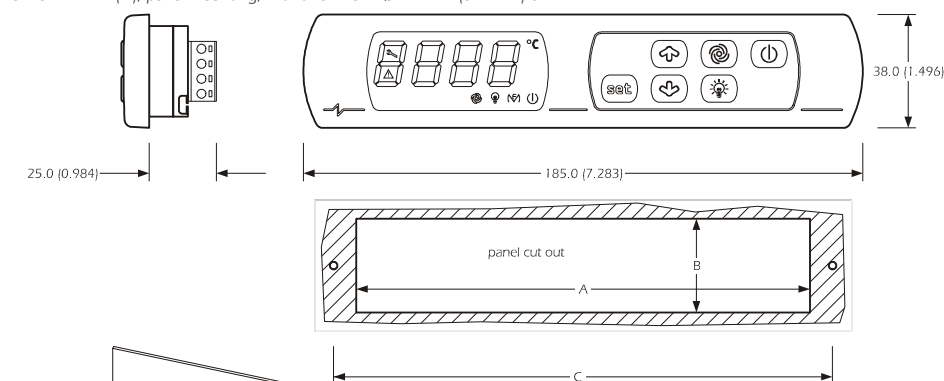
Read these instructions carefully before installing and using the instrument and follow all additional information for installation and electrical connection; keep these instructions close to the instrument for future consultations.

The instrument must be disposed according to the local legislation about the collection for electrical and electronic equipment.

2 INSTALLATION

2.1 Installing the user interface

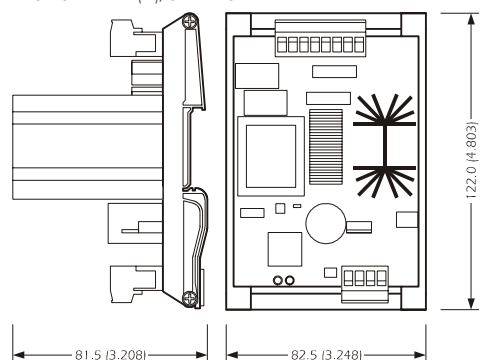
Dimensions in mm (in): panel mounting, with two screws Ø 2.9 mm (0.114 in) or M3.



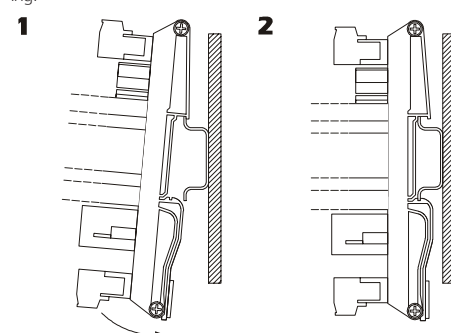
DIMENS.	MINIMUM	TYPICAL	MAXIMUM
A	150.0 (5.905)	150.0 (5.905)	150.5 (5.925)
B	31.0 (1.220)	31.0 (1.220)	31.5 (1.240)
C	164.0 (6.456)	165.0 (6.496)	166.0 (6.535)

2.2 Installing the control module

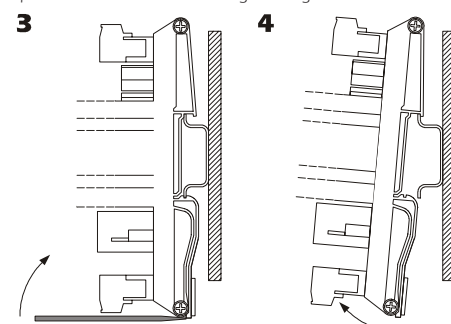
Dimensions in mm (in): on DIN rail.



To install the control module, operate as shown in the following drawing.



To remove the control module, provide oneself with a screwdriver and operate as shown in the following drawing.

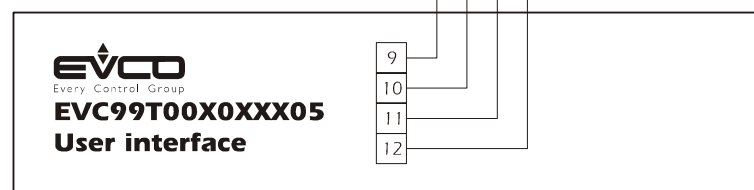
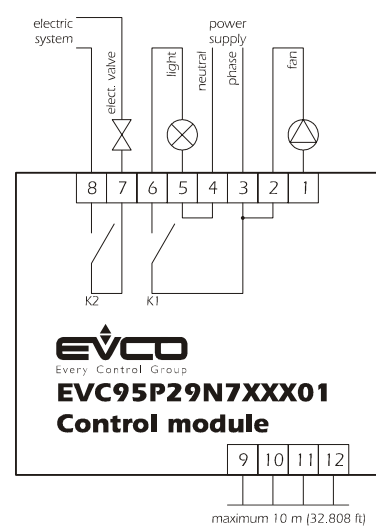


2.3 Additional information for installation

- moderate the clamping torque of the screws, in order not to damage the box
- working conditions (working temperature, humidity, etc.) must be between the limits indicated in the technical data
- **install the user interface in the most ventilated location; install the control module in the least hot location**
- according to the safety legislation, the protection against electrical parts must be ensured by a correct installation of the instrument; the parts that ensure the protection must be installed so that you can not remove them if not by using a tool.

3 WIRING DIAGRAM

3.1 Wiring diagram



3.2 Additional information for electrical connection

- do not operate on the terminal blocks with electrical or pneumatic screwdrivers
- if the instrument has been moved from a cold location to a warm one, the humidity could condense on the inside; wait about an hour before supplying it
- test the working power supply voltage, working electrical frequency and working electrical power of the instrument; they must correspond with the local power supply
- disconnect the local power supply before servicing the instrument
- if you use a neon light or an ultraviolet light, protect terminal 5 or terminal 6 with a fuse
- protect terminal 1 or terminal 2 with a fuse (F 10 A 250 V)
- do not use the instrument as safety device
- for repairs and information on the instrument please contact Evco sales network.

4 USER INTERFACE

4.1 Preliminary information

There are the following operation status:

- status "on" (the instrument is supplied and is turned on: the regulators can be turned on)
 - status "stand-by" (the instrument is supplied but it is turned off via software: the regulators are turned off)
 - status "off" (the instrument is not supplied).
- "Turning on" means moving from status stand-by to status on; "turning off" means moving from status on to status stand-by. After an interruption of power supply the instrument moves to status stand-by.

4.2 Turning on/off the instrument

- make sure no procedure is running
- press (0) 2 s.

4.3 The display

If the instrument is turned on, during the normal operation the display will show "F" followed by the fan speed (considered as percentage of the maximum speed).

If the instrument is turned off, the display will be switched off.

4.4 Showing the working temperature of the user interface and of the control module

To show the working temperature of the user interface:

- make sure no procedure is running
 - press (F) 4 s: the display will show "SL" followed by the temperature.
- To show the working temperature of the control module:
- press (F) or (F) : the display will show "Sr" followed by the temperature.

To quit the procedure:

- do not operate 4 s.
- The sensors for temperature survey are incorporated in the user interface and in the control module.

4.5 Activating the fan speed up by hand

- make sure the instrument is in status on and no procedure is running
 - press (F)
- During the speed up the fan is turned on to the speed you have set with parameter P13 for the time you have set with parameter P8.

4.6 Turning on/off the light

- make sure no procedure is running
- press (F) : LED (F) will light up/go out.

4.7 Activating/deactivating the electric valve

To activate the electric valve:

- the electric valve is automatically activated and LED (F) lights up elapsed the time you have set with parameter P6 since you turn on the instrument.

To deactivate the electric valve:

- turn off the instrument: LED (F) will go out.

5 SETTINGS

5.1 Setting the fan speed during the normal operation (considered as percentage of the maximum speed)

- make sure the instrument is in status on, no procedure is running and the fan speed up is not running
- press (F) or (F) : LED (F) will flash; also look at parameters P13 and P14

If parameter P7 has value 0, the modification must be saved through pressure of button (F) in the time you have set with parameter P8; if parameter P7 has value 1, the modification will automatically be saved. You also can modify the fan speed through parameter P5.

5.2 Setting configuration parameters

To gain access the procedure:

- make sure no procedure is running
- press (F) and (F) 4 s: the display will show "PA"
- press (F)

press (F) or (F) in 15 s to set "19"

- press (F) or do not operate 15 s
- press (F) and (F) 4 s: the display will show "P0".

To select a parameter:

- press (F) or (F)

To modify a parameter:

- press (F)
 - press (F) or (F) in 15 s
 - press (F) or do not operate 15 s.
- To quit the procedure:
- press (F) and (F) 4 s or do not operate 60 s (possible modifications will be saved).

To quit the procedure early:

- press (0) during the modification of the parameter (possible modifications will not be saved).

Switch off/on the power supply of the instrument after the modification of the parameters.

5.3 Restoring the default value of configuration parameters

- make sure no procedure is running
- press (F) and (F) 4 s: the display will show "PA"
- press (F)
- press (F) or (F) in 15 s to set "149"
- press (F) or do not operate 15 s
- press (F) and (F) 4 s: the display will show "dEF"
- press (F)
- press (F) or (F) in 15 s to set "1"
- press (F) or do not operate 15 s: the display will show "dEF" flashing 4 s, after which the instrument will quit the procedure
- switch off/on the power supply of the instrument.

Make sure the default value of the parameters is appropriate.

6 SIGNALS

6.1 Signals

LED	MEANING
(F)	LED fan if it is lit, the fan will be turned on if it flashes: • the modification of the fan speed during the normal operation will be running • a temperature alarm of the control module will be running (parameter P10)
(F)	LED light if it is lit, the light will be turned on
(F)	LED electric valve if it is lit, the electric valve will be activated (parameter P6)
(F)	LED alarm if it is lit, an alarm or an error will be running
(F)	LED service if it flashes, a temperature alarm of the user interface and/or of the control module will be running (parameters P9 and/or P10)
°C	LED Celsius degree if it is lit, the unit of measure of the temperatures will be Celsius degree
(0)	LED on/stand-by if it is lit, the instrument will be in the status stand-by

7 ALARMS

7.1 Alarms

CODE	MEANING
(F)	Temperature alarm of the user interface Remedies: • check the working temperature of the user interface • look at parameter P9 Effects: • no effect
(F)	Temperature alarm of the control module Remedies: • check the working temperature of the control module • look at parameter P10 Effects: • no effect

When the cause that has provoked the alarm disappears, the instrument restores the normal operation.

8 INTERNAL DIAGNOSTICS

8.1 Internal diagnostics

CODE	MEANING
SL --	User interface probe error Remedies: • check the working temperature of the user interface is between 0 and 90 °C (32 and 194 °F) • switch off/on the power supply of the instrument Effects: • no effect
Sr --	Control module probe error Remedies: • check the working temperature of the control module is between 0 and 90 °C (32 and 194 °F) • switch off/on the power supply of the instrument Effects: • no effect
ALco	Error of communication user interface-control module Remedies: • check the connection user interface-control module • switch off/on the power supply of the instrument Effects: • the loads will be turned off
ALF	Error of synchronism of the control module Remedies: • check the connection control module-power supply • switch off/on the power supply of the instrument Effects: • the loads will be turned off

When the cause that has provoked the alarm disappears, the instrument restores the normal operation.

9 TECHNICAL DATA

9.1 Technical data

Box user interface: self-extinguishing grey.

Box control module: open frame.

Frontal protection user interface: IP 65.

Frontal protection power module: IP 40.

Connections user interface: extractable terminal block (to the control module).

The user interface is connected to the control module through a 4 wires cable; the maximum length allowed for the connecting cable is 10 m (32.808 ft; the cable is not supplied with the instrument).

Connections control module: extractable terminal blocks (to the user interface, power supply and outputs).

Working temperature: from 0 to 55 °C (32 to 131 °F; 10 ... 90% of relative humidity without condensate).

Power supply: 230 VAC, 50/60 Hz, 3 VA (approximate).

Digital outputs: 2 relays:

- **light relay:** 5 res. A @ 250 VAC (NO contact)
- **electric valve relay:** 5 res. A @ 250 VAC (NO contact).

Further outputs: 1 cut phase output for fan speed regulation.

The maximum current allowed on the load is 5 A.

ITALIANO

1 PREPARATIVI

1.1 Importante

Leggere attentamente queste istruzioni prima dell'installazione e prima dell'uso e seguire tutte le avvertenze per l'installazione e per il collegamento elettrico; conservare queste istruzioni con lo strumento per consultazioni future.

Lo strumento deve essere smaltito secondo le normative locali in merito alla raccolta delle apparecchiature elettriche ed elettroniche.

2 INSTALLAZIONE

2.1 Installazione dell'interfaccia utente

Si veda il disegno del paragrafo 2.1 della sezione in Inglese.

Dimensioni in mm (in); installazione a pannello, con due viti Ø 2,9 mm (0,114 in) o M3.

2.2 Installazione del modulo di controllo

Si vedano i disegni del paragrafo 2.2 della sezione in Inglese.

Dimensioni in mm (in); su guida DIN.

Per installare il modulo di controllo, operare come indicato nei disegni 1 e 2.

Per rimuovere il modulo di controllo, munirsi di un cacciavite e operare come indicato nei disegni 3 e 4.

2.3 Avvertenze per l'installazione

- per evitare di danneggiare il contenitore, moderare la coppia di serraggio delle viti
- accertarsi che le condizioni di lavoro (temperatura di impiego, umidità, ecc.) rientrino nei limiti indicati nei dati tecnici
- installare l'interfaccia utente nel luogo più ventilato; installare il modulo di controllo nel posto meno caldo
- in conformità alle normative sulla sicurezza, la protezione contro eventuali contatti con le parti elettriche deve essere assicurata mediante una corretta installazione dello strumento; tutte le parti che assicurano la protezione devono essere fissate in modo tale da non poter essere rimosse senza l'aiuto di un utensile.

3 COLLEGAMENTO ELETTRICO

3.1 Collegamento elettrico

Si veda il disegno del paragrafo 3.1 della sezione in Inglese.

3.2 Avvertenze per il collegamento elettrico:

- non operare sulle morsettiere utilizzando avvitatori elettrici o pneumatici
- se lo strumento è stato portato da un luogo freddo a uno caldo, l'umidità potrebbe condensare all'interno; attendere circa un'ora prima di alimentarlo
- accertarsi che la tensione di alimentazione, la frequenza e la potenza elettrica operativa dello strumento corrispondano a quelle dell'alimentazione locale
- disconnettere l'alimentazione prima di procedere con qualunque tipo di manutenzione
- se si utilizza una luce al neon o una luce ultravioletta, proteggere il morsetto 5 o il morsetto 6 con un fusibile
- proteggere il morsetto 1 o il morsetto 2 con un fusibile (F 10 A 250 V)
- non utilizzare lo strumento come dispositivo di sicurezza
- per le riparazioni e per informazioni riguardanti lo strumento rivolgersi alla rete di vendita Evco.

4 INTERFACCIA UTENTE

4.1 Cenni preliminari

Esistono i seguenti stati di funzionamento:

- lo stato "on" (lo strumento è alimentato ed è acceso: i regolatori possono essere accesi)
 - lo stato "stand-by" (lo strumento è alimentato ma è spento via software: i regolatori sono spenti)
 - lo stato "off" (lo strumento non è alimentato).
- Con il termine "accensione" si intende il passaggio dallo stato stand-by allo stato on; con il termine "spegnimento" si intende il passaggio dallo stato on allo stato stand-by. Dopo un'interruzione dell'alimentazione lo strumento passa allo stato stand-by.

