

55x55mm capacitive glass touch panel with round display

ZVIF55DV2 TECHNICAL DOCUMENTATION

FEATURES

- · Customizable printed glass with 4 touch areas with backlight
- Available colour, please refer to: https://www.zennio.com/finishes
- 1.18" OLED display (128x128 pixels)
- 2 analog/digital inputs
- Thermostat
- Clock functionality (subject to updating through devices with RTC or NTP client)
- Touch confirmation through acoustic feedback
- · Proximity and luminosity sensor
- Total data saving on KNX bus failure
- Integrated KNX BCU (TP1-256)
- Dimensions 55.5 x 55.5 x 35.8 mm
- Flush mount on back box
- Conformity with the CE, RCM directives (marks on the back side)

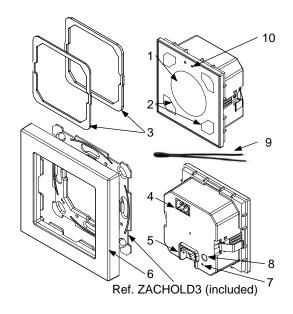


Figure 1: Flat 55 Display v2

 Display 	2. Touch areas	3. Metallic levelling plate (1 and 1.5mm)	Inputs connector
KNX connector	6. Decorative frame (sold separately)	7. Programming LED	8. Programming button
9. Temperature probe ref. 9900015 (included)		Luminosity and proximity sensor	

Programming button: short press to set programming mode. If this button is held while plugging the device into the KNX bus, it enters the safe mode.

Programming LED: programming mode indicator (red). When the device enters the safe mode, it blinks (red) every half second. During the start-up (reset or after KNX bus failure) and if the device is not in safe mode, it emits a red flash.

GENERAL SPECIFICATIONS					
CONCEPT			DESCRIPTION		
Type of device			Electric operation control devic	Electric operation control device	
	Voltage (typical)		29 VDC SELV	29 VDC SELV	
	Voltage range		21-31 VDC		
KNX supply	Maximum	Voltage	mA	mW	
KINA Supply		29 VDC (typical)	11.1	321.9	
	consumption	24 VDC ¹	15	360	
	Connection type		Typical TP1 bus connector for	Typical TP1 bus connector for 0.8 mm Ø rigid cable	
External power	er supply		Not required	Not required	
Operation tem	perature		0 +55 °C	0 +55 °C	
Storage temper	erature		-20 +55 °C	-20 +55 °C	
Operation hun	nidity		5 95%	5 95%	
Storage humic	dity		5 95%		
Complementa	ry characteristic	s	Class B	Class B	
Protection class Operation type			III		
			Continuous operation		
Device action type			Type 1	Type 1	
Electrical stres	ss period		Long		
Degree of protection			IP20, clean environment		
Installation			Flush mount on back box		
Minimum clea			Not required	Not required	
Response on	KNX bus failure		Data saving according to paran	Data saving according to parameterization	
Response on KNX bus restart				Data recovery according to parameterization	
			The programming LED indicates programming mode (red). Backlighting of		
Operation indi	Operation indicator		touch areas and display depending on their parameterization.		
Weight			49 g		
Housing mate	rial		PC+ABS FR V0 halogen free	PC+ABS FR V0 halogen free	

¹ Maximum consumption in the worst-case scenario (KNX Fan-In model).

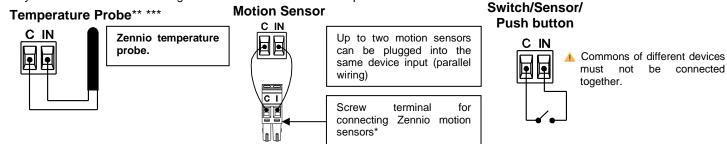
INPUTS SPECIFICATIONS AND CONNECTIONS		
CONCEPT	DESCRIPTION	
Number of inputs	2	
Inputs per common	2	
Operation voltage	3.3 VDC in the common	
Operation current	1 mA @ 3.3 VDC (per input)	
Switching type	Dry voltage contacts between input and common	
Connection method	Pluggable screw terminal block (0.2 Nm max.)	
Cable cross-section	0.2-1.5 mm ² (IEC) / 28-14 AWG (UL)	
Maximum cable length	30 m	
NTC accuracy (@ 25 °C) ²	±0.5 °C	
Temperature resolution	0.1 °C	
Maximum response time	10 ms	

² For Zennio temperature probes.

CLUDED TEMPERATURE PROBE SPECIFICATIONS		
CONCEPT	DESCRIPTION	
Measuring range	-40 +105 °C	
NTC Probe diameter	3 mm	
Thermistor value (@ 25 °C)	10 kΩ	

INPUTS CONNECTION

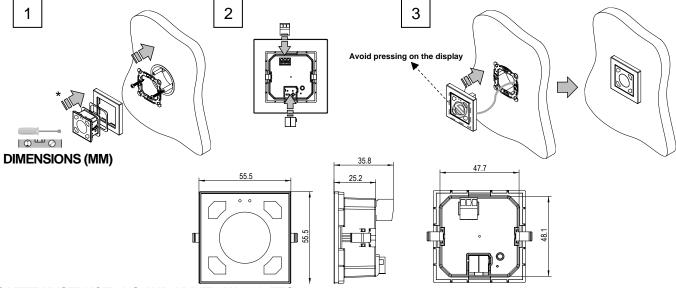
Any combination of the following accessories is allowed in the inputs:



- * In case of using ZN1IO-DETEC-P sensor, its micro switch number 2 must be in Type B position.
- ** May be a Zennio temperature probe or any NTC with known resistance values at three points in the range [-55, 150 °C].
- *** To use the included temperature probe, a proper thermal transfer must be ensured, for example, by installing it in the small internal notch of the Zennio decorative frame (sold separately).

INSTALLATION INSTRUCTIONS

- 1. Fix the metal plate into a square or round back box by using the screws from the box, checking that it is levelled. Insert the device in the frame.
- * (Optional) Insert the metallic levelling plate/s so the device stays at the desired level.
- 2. Connect the KNX bus and the inputs terminal to the back of the device.
- 3. Fit the device and its frame into its final position and check that the strength of the clips is enough to fix the device. Avoid pressing on the display during this step, in order to prevent accidental damages to the device.





SAFETY INSTRUCTIONS AND ADDITIONAL NOTES

- Installation should only be performed by qualified professionals according to the laws and regulations applicable in each country.
- Do not connect the mains voltage nor any other external voltage to any point of the KNX bus; it would represent a risk for the entire KNX system. The facility must have enough insulation between the mains (or auxiliary) voltage and the KNX bus or the wires of other accessories, in case of being installed.
- Keep the device away from water (condensation over the device included) and do not cover it with clothes, paper or any other material
 while in use.
- In order to improve the lifespan of the LED indicators, parameterising constant lighting is not recommended.
- The WEEE logo means that this device contains electronic parts and it must be properly disposed of by following the instructions at https://www.zennio.com/en/legal/weee-regulation.
- This device contains software subject to specific licences. For details, please refer to https://zennio.com/licenses.