

# EXPERT NANO

## EXPERT NANO 2ZN

The Expert NANO 2ZN is an electronic thermoregulator with two relays for hot/cold or humidifies/dehumidifies in neutral zone. It can be used also for a double setpoint with two separated outputs. It has one analogue input for NTC temperature probe, one analog input for humidity probe, two relays with separate contacts and RS485 output for monitoring system (TeleNet or Modbus-RTU). Buzzer is included and the power supply depending on model.

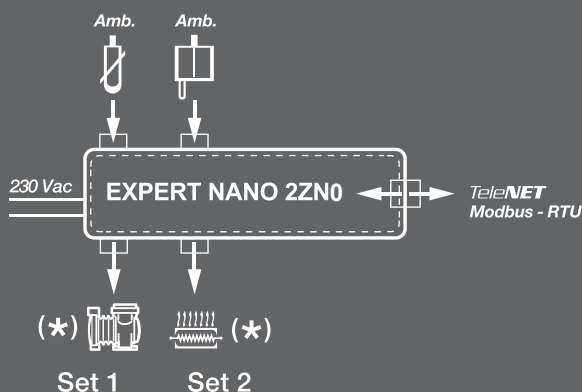
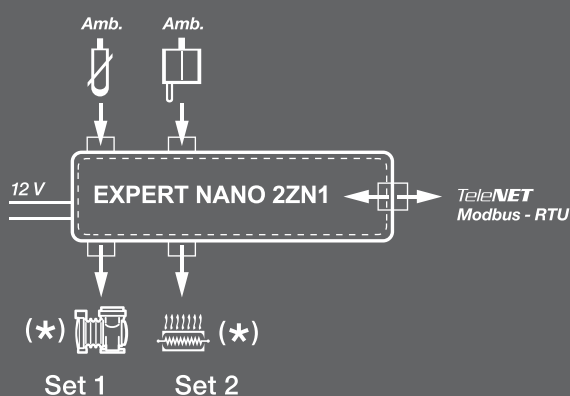


## APPLICATIONS

- Management of climatic storage rooms.

## CONNECTION DIAGRAM

( \* ) = Configurable function



## MAIN CHARACTERISTICS

- Configurable for hot/cold call or humidifies/dehumidifies call in neutral zone or as double set-point with distinct outputs.
- Key operated ON/OFF.
- Display/adjustment of temperature with decimal point.
- Flat front surface for easy cleaning and keys of ample dimension which can be customized with various colours (on request).
- Internal buzzer for acoustic signals.
- High brightness display with increased icons and figures.
- PEGO programming philosophy guaranteeing immediate start-up.
- RS485 serial connection with Modbus-RTU or Telenet protocol.
- IP65 front protection. Two-fold fastening options: clips / screws.



## ACCESSORIES AVAILABLE

## THERMOSTATS EXPERT NANO SERIES

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TECHNICAL CHARACTERISTICS	EXPERT NANO 2ZN12	EXPERT NANO 2ZN02
DIMENSIONS	93 x 37 mm depth 59 mm	
DRILL HOLE TEMPLATE	71 x 29 mm (+0,2/-0,1 mm)	
INSTALLATION	In front of board by means of rear fastening clips or two front screws	
CASING	Plastic PC+ABS UL94 V-0 body, PC transparent front, Key panel PC or PC+ABS	
INSULATION TYPE	Class II	
FRONT PROTECTION RATING	IP65 with front board installation	
POWER SUPPLY	12V AC~ +10/-15% 50-60 Hz   12V DC +10/-15% class 2	230 V~ +10/-15% 50-60 Hz
ASSORBED POWER	3 VA max	
OPERATING TEMPERATURE	-5 ÷ 55 °C humidity < 90% Rel. Hum. not condensing	
STORAGE TEMPERATURE	-20 ÷ 70 °C humidity < 90% Rel. Hum. not condensing	
UNSUITABLE OPERATING ENVIRONMENTS	Environments with strong vibrations or impacts; aggressive, polluted or corrosive atmospheres, exposure to direct solar radiation, explosive atmospheres or flammable gas.	
DISPLAY	3-Digit with sign, decimal point and LED status indicators	
RESOLUTION	0,1 °C	
PROBE PRECISION (electronic)	±0,5 °C	
READING RANGE	-45 ÷ 99 °C	
CONNECTIONS	Screw fixed clamps	Screw fixed clamps
SOFTWARE CLASS	A / Parameters saved on non-volatile memory (EEPROM)	
	INPUTS	
ANALOGUE	1 input for NTC probes (10 kΩ 1% at 25 °C) 1 input for humidity probe (4-20 mA / 0-100% RH)	
	OUTPUTS	
COLD RELAY	(DO1) N.O. 16(6)A / 250V~	
HEATERS RELAY	(DO2) N.O. 8(3)A / 250V-	
BUZZER	PRESENT	
SUPERVISION SYSTEM	TELENET / MODBUS-RTU	
	ACCESSORIES	
ACCESSORIES AVAILABLE	NANO BOX NANO ADAPTER	NANO BOX NANO ADAPTER