EXPERT NANO

EXPERT NANO MILK

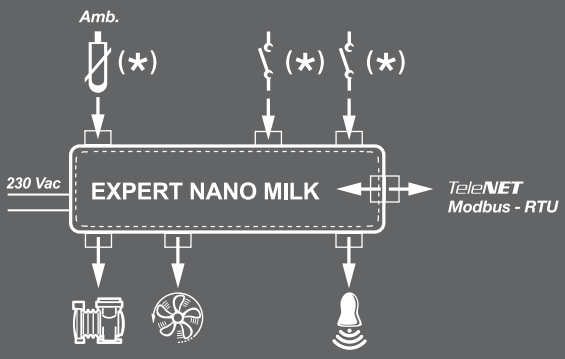
The EXPERT NANO MILK is an electronic regulator operating with microprocessor designed for applications of milk preservation / refrigeration; it controls temperature and stirrer. It is fitted with one analogue input for NTC or PTC temperature probe, two digital inputs, three relays for the control of the compressor, stirrer and alarm and buzzer. The regulator can be also configured for heat applications.

APPLICATIONS

- Milk preservation/refrigeration.

CONNECTION DIAGRAM

(*) = Configurable function



MAIN CHARACTERISTICS

- Can be configured for hot or cold applications.
- Can be configured to read NTC or PTC probes.
- Relay for controlling the compressor, stirrer and alarm.
- Ability to initiate cycles of temperature reduction, by key or digital input.
- Key or DI operated manual START/STOP stirrer.
- START/STOP Cyclic stirrer with time settings
- Key operated ON/OFF.
- Display/adjustment of temperature with decimal point.
- Internal buzzer for acoustic signals.
- Flat front surface for easy cleaning and keys of ample dimension which can be customized with various colours (on request).
- High brightness display with increased icons and figures.
- PEGO programming philosophy guaranteeing immediate start-up.
- IP65 front protection.
- Two-fold fastening options: clips / screws.
- RS485 serial connection with Modbus-RTU or Telenet protocol.

TECHNICAL CHARACTERISTICS	EXPERT NANO MLK01
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	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
SOFTWARE CLASS	A / Parameters saved on non-volatile memory (EEPROM)
	INPUTS
ANALOGUE	1 input for NTC probes (10 kΩ 1% at 25 °C) or PTC probes (KTY83-121)
DIGITAL	2 inputs (the voltagecontact)
	OUTPUTS
COMPRESSOR RELAY (DO1)	(DO1) N.O. 16(6)A / 250V~
ALARM RELAY (DO2)	(DO2) N.O. 8(3)A N.C. 6(3)A / 250V~
STIRRER RELAY (DO3)	(DO3) N.O. 8(3)A / 250V~
BUZZER	PRESENT
SUPERVISION SYSTEM	TELENET / MODBUS-RTU
	ACCESSORIES
ACCESSORIES AVAILABLE	NANO BOX NANO ADAPTER