

Weatherproof Thermostat EVENTHERM TH-4-20

The TH-4-20 thermostat is designed to provide precise control of heating, cooling, and ventilation systems. A stainless-steel sensing coil is mounted on the side of the weatherproof ABS plastic enclosure. The adjustable knob pointer disc allows the thermostat to be recalibrated.

This EVENTHERM TH-4-20 thermostat is resistant to moisture and gases found in corrosive agricultural buildings. The TH-4-20 will provide accurate temperature control with long life in livestock confinement buildings, greenhouses, warehouses and industrial buildings.

INSTALLATION

1. Installation may only be done by a qualified engineer; the local electrical code needs to be respected. Install a cable gland and when required remove the knock-out located on bottom of enclosure to install a second cable gland (To remove the knock-out: break through the groove in several places with a screwdriver). Use only an approved conduit or cable gland.
2. Mount TH-4-20 using the 3 flanges on outside of plastic enclosure.
3. Pull off the knob and remove the cover of enclosure for wiring.
4. Connect wires to appropriate terminals (heating or cooling) and protective ground terminal. (See wiring example picture 1 and wiring diagram picture 2.)

Check wiring. Set dial to 38°C (100°F). (Full clock wise)

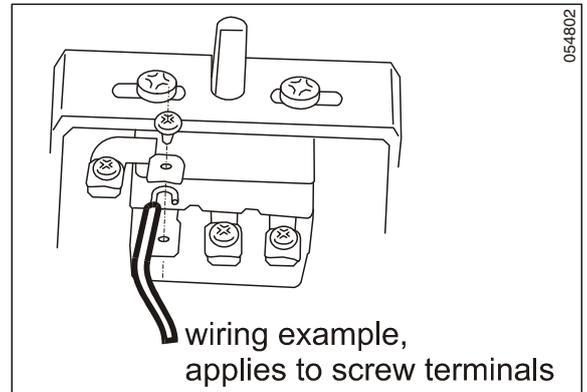
5. Install lid and knob for safety. Connect power supply. Heating unit should come on (or cooling should remain off). Turn dial down to 5°C (41°F). Heating unit should shut off (or cooling turn on) as dial passes current room temperature. Turn dial back to 38°C (100°F). Heating should again turn on (or cooling off).
5. Tighten screws.
6. Install knob respecting the flat side on the shaft.
7. Set dial to desired temperature.

CALIBRATION

This thermostat is carefully calibrated before shipment. Sometimes mechanical thermostats can lose calibration. If this happens, the adjustable knob allows the thermostat to be recalibrated.

To recalibrate, follow these steps:

1. Place accurate thermometer next to stainless steel spiral sensor. Allow thermometer to reach room temperature (15 minutes to be safe) and be sure to keep hands away from spiral sensor to prevent inadvertent heating. After temperature stabilization turn the knob so the thermostat clicks, turn the knob back so it clicks again. Turn the knob so it sits just between the 2 clicks. (Picture 3 (1))
2. When the thermometer reading and the knob temperature reading are not the same (+/-1°C or +/-1,8 °F) you may consider to recalibrate the thermostat.
3. Release the Phillips screw in the side of the knob grip, 1 to 1 1/2 rev. to unlock the knob grip and the knob pointer disc parts. (See Picture 3 (2))
4. Hold the knob grip securely with the fingers of one hand so it cannot rotate or move position. Turn the knob pointer disc with the other hand so the white arrow points to the same temperature as the thermometer is reading. (See Picture 3 (3))
5. Check if click temperature is around the thermometer temperature reading. If not, repeat step 4.
6. Tighten Philips screw to lock knob grip and knob pointer disc part. (See Picture 3 (4))
7. This completes the calibration procedure.



Picture 1

Type TH-4-20
WATERPROOF & RAIN TIGHT ENCLOSURE.
BOÎTER IMPERMÉABLE

ELECTRIC SPECIFICATION APPLIES TO BOTH CONTACT SETS.
CARACTÉRISTIQUES ÉLECTRIQUES VALABLES POUR LES DEUX ENSEMBLES DE CONTACTS

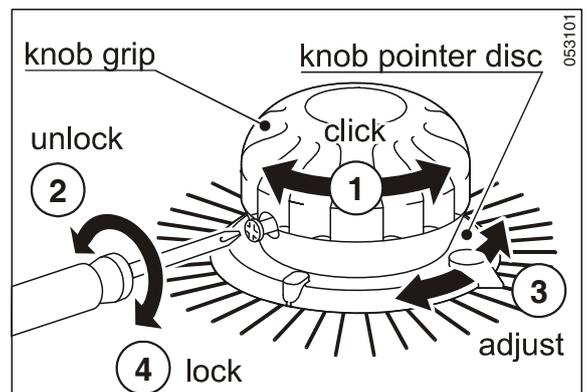
USE COPPER CONDUCTORS ONLY.
UTILISEZ FIL DE CUIVRE SEULEMENT

THERMOSTAT GROUND TERMINAL
BORNE DE TERRE

Wiring Diagram:
Schéma de branchement:

VOLTAGE A.C. 50 or 60Hz VOLTS A.C. 50 ou 60Hz	120	240
RESISTIVE LOAD NON INDUCTIVE AMPS AMP. AVEC CHARGE NON INDUCTIF	16	16
FULL LOAD AMPS @ PF 0,7 AMP. AVEC CHARGE MAX. COSΦ	5	3
LOCKED ROTOR, AMPS AMP. AVEC ROTOR BLOQUANT	30	30
DC MAX LOAD @ 40V. 10 AMPS CD CHARGE MAX. AU 40V. 10 AMP.		
PILOT DUTY (VA) CHARGE NOMINALE (VA)	120	

Picture 2



Picture 3

Weatherproof Thermostat EVENTHERM TH-4-20

SPECIFICATIONS TH-4-20	
Weatherproof ENVIROTHERM Thermostat	
Switch	Single pole double throw
Range	40-105 °F / 5-40°C
Sensing element	Stainless steel spiral.
Terminals	Screw terminals.
Differential	2,4°F/1,3°C
Enclosure	ABS Plastic weatherproof. 2 conduit or cable gland openings maximum. Gasket for lid and sealed spiral entries.
Knob	Pull off removal. Can be temperature scale calibrated. Unlocked with small Philips screwdriver.
ELECTRICAL RATINGS	110/240 Volts A.C. 50/60 Hz Full load.16 A (resistive)

Warranty: Supplier warrants to the original purchaser that the TH-4-20 control will provide normal service for up to twelve (12) months from the purchase date. This warranty applies when product is proven to have been properly installed, and has been maintained and operated in accordance with the manufacturer's instructions. If the control has been repaired or altered in any way, this warranty does not apply. Warranty claims must be submitted in writing to the supplier within two weeks (14 days) of the problem or malfunction of the corresponding claim. The product detailed in the claim must be returned with the claim form at customer's expense. If the supplier determines the claim to be valid, the supplier will repair or replace the control or component at no charge and will return to the customer FOB to supplier's address. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS HEREBY EXCLUDED. IN NO EVENT OR CIRCUMSTANCE SHALL THE SUPPLIER BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER.

WARNING: These products are designed and manufactured to provide high performance and are guaranteed to be free from defects. However, the user should recognize that even reliable products may experience an occasional failure. If these products are planned to be used in a system where failure could result in loss or injury, the user should provide an adequate backup system, as well as acknowledge willingness to accept the risk of such loss or injury.

Supplied by : (stamp)