

TERMOMAT 2 AND 3



TECHNICAL DATA

Type of control	On-off, microprocessor
Voltage	230 VAC 50 Hz
Power consumption	3 VA
Output relay contact ratings	2 A, 400 VA
Sensors, Termomat 2	T1 = 6 m, T2 = 3 m, T3 = 3 m Sensors can be lengthened max. 70 m with 2 x 1.5 mm ² and max. 100 m with 2 x 2.5 mm ² wires
Sensors, Termomat 3	T1 = 3 m, T2 = 5 m, T3 = 5 m Sensors can be lengthened 10 m with Order No. 8802
Temperature range of sensors	-30°C - +120°C
Digital display	Range +15°C - +110°C, LED 3-digits
LED indicators	Red LED – pump runs Blue LED – additional heat/burner on
Protection class	IP 40
Dimensions	75 x 90 x 130 mm
Weight	1.1 kg

TERMOMAT 2 is a differential temperature control and performance monitor for storage tank applications with twin storage tanks in which heat is collected from the primary tank to a secondary tank or boiler. It controls the charging pump. TERMOMAT 2 has a relay for automatic operation of an additional heat source.

TERMOMAT 2 INCLUDES

1. Electronic control unit TM2-G1
2. Three temperature sensors with wires
3. Three sensor housings with G 1/2" threads
4. Mounting plate with screws

TERMOMAT 3 is a differential temperature control and performance monitor designed to charge a storage tank with a pellets or oil heated boiler. It controls burner and charging pump. The main supply and all sensors have plug-in connections which minimizes installation problems and saves on labor charges.

TERMOMAT 3 INCLUDES

1. Electronic control unit TM3-G1
2. Three temperature sensors with wires
3. Three sensor housings with G 1/2" threads
4. Mounting plate with screws

ORDERING DATA

Order No.	Type
8002	TERMOMAT 2 differential temperature control
8003	TERMOMAT 3 differential temperature control
8802	Sensor lengthening 10 m with connecting box

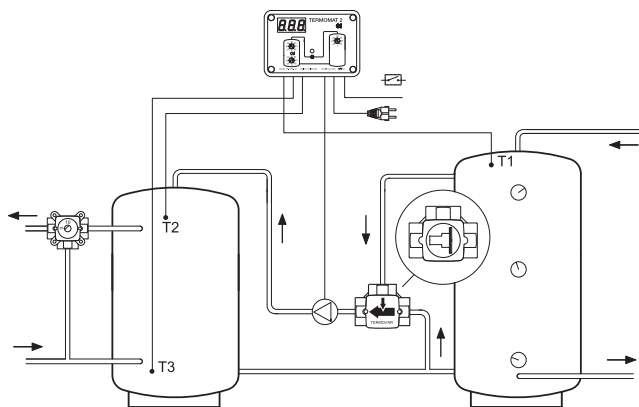
LK ACASO AB
Box 634
SE-521 21 Falköping
Tel: +46 515 107 50
Fax: +46 515 590 30

E-mail: info@lkacaso.se
Internet: www.lkacaso.se



LK Acaso

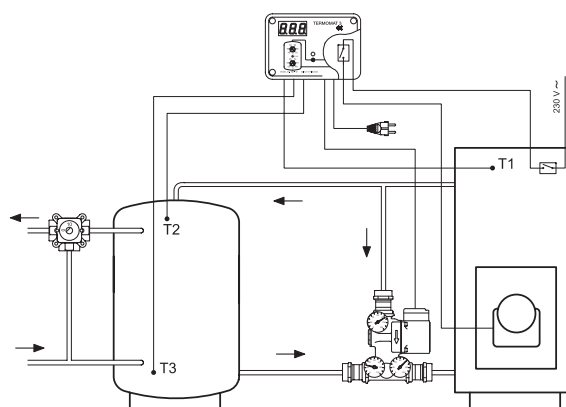
FUNCTION OF TERMOMAT 2



- TERMOMAT 2 measures the temperature difference between a primary and a secondary storage tank. The charging pump is controlled so that the secondary tank keeps its energy with a maintained layering for as long as possible. When both tanks are out of energy a relay automatically starts an optional additional heat source. A digital display shows the temperatures T1, T2 and T3.
- The pump starts charging from the primary to the secondary tank as soon as temperature T1 is above the selected value or temperature T2 is below the selected value.
- The pump stops when temperature T3 has reached the selected value, temperature T2 is higher than T1 or T1 is below the selected value.
- The relay automatically starts the additional heat source when temperature T1 drops below the selected value or T3 is 3°C below the selected value. In this case the pump does not run.
- The relay does not work when temperature T2 is higher than the selected value.
- With TERMOVAR thermic valve the temperature of the secondary tank can be limited to 45°C, 55°C, 61°C, 72°C or 80°C.

See TERMOVAR LOADING VALVE brochure.

FUNCTION OF TERMOMAT 3



- TERMOMAT 3 measures the temperature difference between a storage tank and a boiler. It controls the burner and the charging pump. When the storage tank is out of energy, burner and pump start working. A digital display shows the temperatures T1, T2 and T3.
- The burner starts when temperature T2 drops below the selected value.
- The burner stops when temperature T3 is higher than the selected value.
- The pump starts when temperature T1 is above its selected value and above temperature T2.
- The pump stops when temperature T3 is higher than the selected value. The pump continues to run for 3 min before stopping.
- A system with a TERMOVAR loading unit ensures a minimum return water temperature into the boiler, which eliminates the risk of destructive thermal shock and prolongs the life-time of the boiler.

See TERMOVAR LOADING UNIT brochure.



LK Acaso