Energy savings
The VENUS TR 36 room thermostat is equipped with a receiver for ORION 512 or CALYPSO 601 for the temperature set-back function. The thermostat is designed to control floor/ceiling heating or even circuits with heating panels. There is a great saving potential on energy consumption through temperature set-back. Due to the inertia of floor/ceiling heating, it is important to displace the set-back hours in relation to the user hours (2 - 4 hours). NB! The hours are set on the ORION 512 control unit.

The single channel transmitter CALYPSO 601 is transmitting on 107 kHz and works without a filter FPX/FNX 35. When using CALYPSO 601, don’t forget to install the TR 36 for 107 kHz!

The VENUS TR 36 is equipped with 2 electronic thermostats for setting of the required set-back and comfort temperatures. The built-in temperature sensor will provide an even and constant room temperature. If the thermostat is equipped with a floor or remote sensor, the thermostat itself may be mounted in a different room and out of range for persons not concerned. (See also the TRX 36 for DIN - rail mounting).

Operating the TR 36
1. Yellow operating light indicates "heat ON".
3. Override button. Changes the modus from comfort to economy or vice versa. The override lasts until the next modus change from ORION 512 or until you press the button once more, which will even be the case if ORION 512 is not connected.
4. 2-pole ON/OFF switch.
5. Setting of comfort temperature.
6. The channel label (1 - 12) is mounted here.

Setting of comfort temperature
The comfort temperature is set by the thermostat knob (5). The scale is related to room temperature 18(min) to 30(max) °C when using room/remote sensor *).

Setting of set-back temperature
The set-back temperature selector is mounted under the front cover (see fig. 1). The scale is related to room temperature 7 - 16 °C when using a room/remote sensor *).

*) If floor sensor is used, the temperature scales are appr. 10 °C higher.

Channel selector
The channel selector (1 - 12) is mounted under the front cover (see fig. 1). Choose the corresponding zone from ORION 512. If the receiver function (ORION 512) is not in use, set the channel selector to pos. "0".

Override
During longer absence periods the TR 36 may be set to constant set-back by pressing the override button (green CONSTANT button) on ORION 512 or by operating the telephone/modem, if the TR 36 is controlled by such products.

Installation
The NOBO TR 36 is designed for on-wall mounting and measures 84x84mm. In order to mount the installation cable in open installations, remove the corresponding ribs on the product socket. For wall box mounting, where the
mounting box disc can not be rotated, remove the printed circuit card from TR 36 in order to get access to the mounting key holes. The TR 36 has one common terminal for remote and floor sensors (2 x 1,5mm²). It is then important to mount the jumper in the correct position (see fig. 1). The TR 36 has an electronically controlled relay output (1 - pole break), and the maximum load is 16 Amps directly. By larger currents (loads), the TR 36 may operate contactors/relays directly.

**Remote sensors**
If the remote cable is run with other electric cables, it should be of a shielded type (polyconductor with a braid). The length of the sensor cable (min. 1 mm²) should not exceed 50 m. NB! The braid shall not be connected to ground. Remote sensors have to be ordered separately, and there are 3 different types:

**STR 04**
Floor sensor for control of floor temperature.
- Comfort area: 28 - 40 °C
- Economy area: 17 - 26 °C

**STR 05**
Remote sensor for control of room temperature in normal rooms.
- Humidity class: IP 40
- Comfort area: 18 - 30 °C
- Economy area: 7 - 16 °C

**STR 06**
Remote sensor for control of room temperature in wet rooms.
- Humidity class: IP 55
- Comfort area: 18 - 30 °C
- Economy area: 7 - 16 °C

**Blocking of thermostat**
If necessary, the VENUS TR 36 may be blocked for non authorized use. The 2 - pole ON/OFF - switch may be blocked by using the enclosed, white plastic cover. In addition, the thermostat wheel can be locked by means of a locking device (ring) underneath the front cover.

**Reliability**
After a current break, the thermostat will always start in comfort temperature. Within 5 min. The ORION 512 will set the thermostat to the correct modus. The temperature control will always continue on the settings from before the current break.

**Other NOBO thermostat**
The VENUS TR 36 is also available for DIN - rail mounting and remote sensors only.
- Type: TRX 36, 16 Amps.

Room thermostats with built - in fixed time programs: See NOBO GEMINI TC.

**Technical data**
- Nominal voltage: 230V AC
- Nominal current: 16(2) Amps
- Humidity class: IP20
- Sensor: NTC, 22 kΩ at 25 °C
- Control principle: Proportional, analogue control with relay output (single pole)
- Switch: 2 - pole
- Dimensions: 84x84x35,5 mm

**Electrical connection diagram**