Universal controller UVR 1611

06000
For wall mounting

Freely programmable

Extendable using a relay module

06001
Without casing for installation into switchboards

The universal controller UVR 1611 is, because of the functions modules, freely programmable and can be adjusted for every system configuration. As every function module can be called up multiply complex control systems e.g. solar installations with several collector fields and tanks can be realised.

Functions of UVR 1611:

- 16 sensor inputs for KTY10 or PT1000 sensors (2 of them are used as impulse)
- 4 speed controllable outputs 7 relay outputs
- 2 outputs extendable using a relay module
- Operated by a scrolling wheel
- Integrated Potentiostat for electrical tank corrosion protection
- CAN-Bus for data exchange with other UVR 1611 controllers
- Infrared interface for software updates

06141

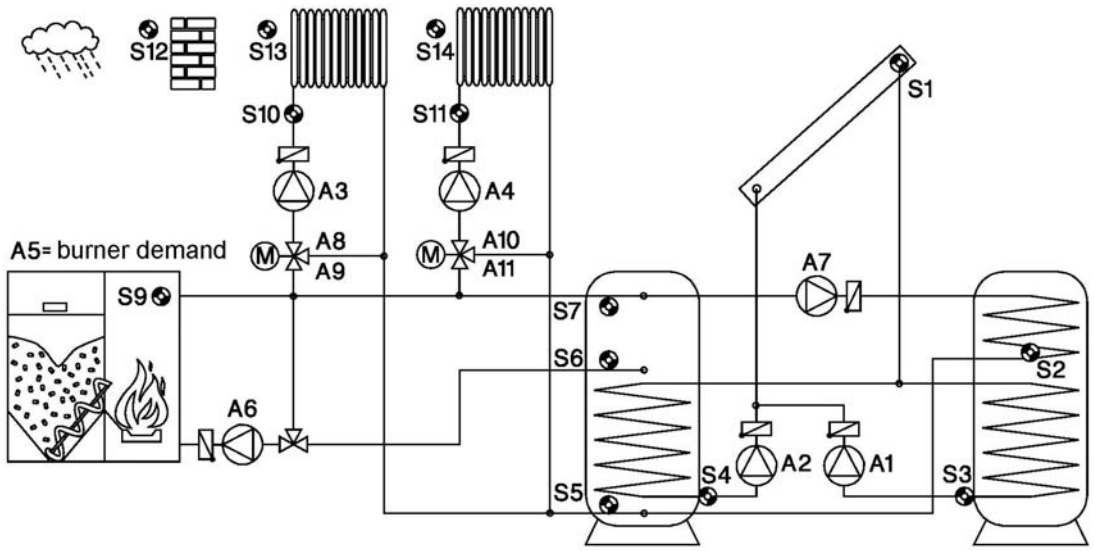
06113

06116

Sensores are not in the delivery included!

Accessories:		
Code	**Type**	**Designation**
06112	SENP HZ	Sensor package for heating: 1 outdoor sensor, 1 remote control, 4 sensors, 3 immersion sleeves, line cord, mounting components
06111	SENP SL	Sensor package for solar: 1 collector solar, 6 sensors, 6 immersion sleeves, line cord, mounting components
06100		Sensor of global irradiance
06120		Titanium anode
06141	CAN-Monitor	Remote control for CAN-monitor for UVR 1611
06113	UVR BTL	Bootloader
06116	HiRel1611	Relay module for UVR 1611 for extension
06118	Simboard	For simulation of sensors, support for programming

Schemes of pre-adjustements



Planning information UVR1611 Ver.2.05:

Inputs:

- **All 16** inputs are suitable for standard sensors type KTY (2 kW) and PT1000 or as digital input. Following inputs offer special functions:
  S8: current loop (4 - 20 mA) or voltage control (0 - 10 V=)
  S15, S16: Impulse input e.g. for volume measurement sensor

Outputs (system voltage):

- **A1:** Pump speed controllable output **(!!!!!!!!!! max. 0,7A !!!!!!!!!!)** with integrated noise filter. Also for regulating ventilators with phase angle control suitable.
- **A2, 6, 7:** Pump speed controllable outputs for pumps and using an external line filter also for fan coil motors **(max.1A)**
- **A3:** Relay output for optional users
- **A4:** Relay output with opener and closer for optional users, especially for valves without return spring
- **A5:** Relay output – potential free, with opener and closer for burner demands with legally regulated distance to the line voltage.
- **A8, A9:** Relay output (closer) for optional users, preferably together for mixing motors, as there is only one neutral wire terminal existing for both outputs.
- **A10, A11:** Relay outputs (A10 with closer, A11 with opener and closer) for optional users, preferably together for mixing motors, as there is only one neutral wire clamp existing for both outputs.

Special outputs:

- **PTS:** Potentiostat – connection of a titanium anode as corrosion protection for enamelled DHW tanks (up to 750l) instead of the magnesium anode.
- **CAN- Bus:** For the data transfer in net works. Data rate 50 kb/sec., supply for external devices with 12V= / 100mA
- **Hirel 1, 2 (A12,A13)**: Control lines for a relay module for two additional relay outputs A12 and A13, which can be installed as module in “Slot 1”
- **DL (A14)**: Single data line for data recording using a bootloader to the PC, can be used as control output (A14) through parameterisation.
- **0-10V (A15)**: Control output with standardized voltage level 0 - 10V= e.g. for burner modulation. In the user software designated as analog output. This output has an impedance of 470 Ohm.