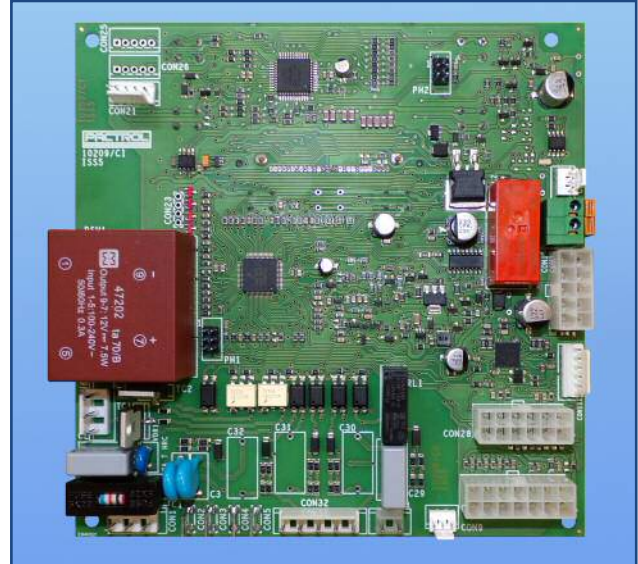
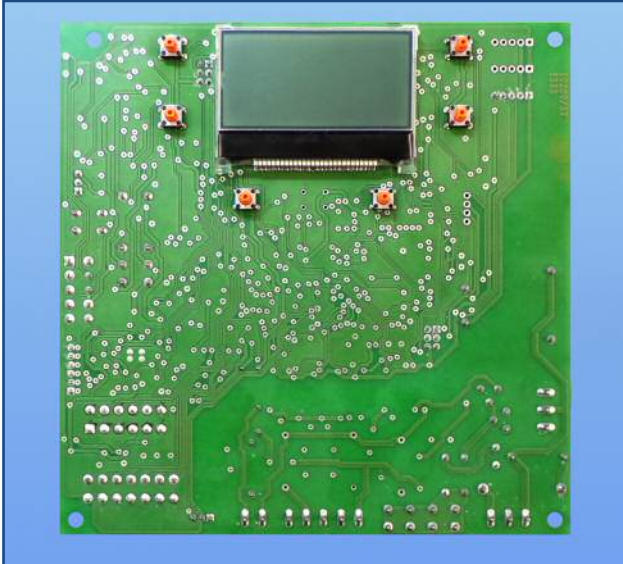


# Pactrol Heat Interface Unit - Control Platform



## Description

This is a new electronic control which is able to replace traditional mechanical HIU controls with an intelligent solution.

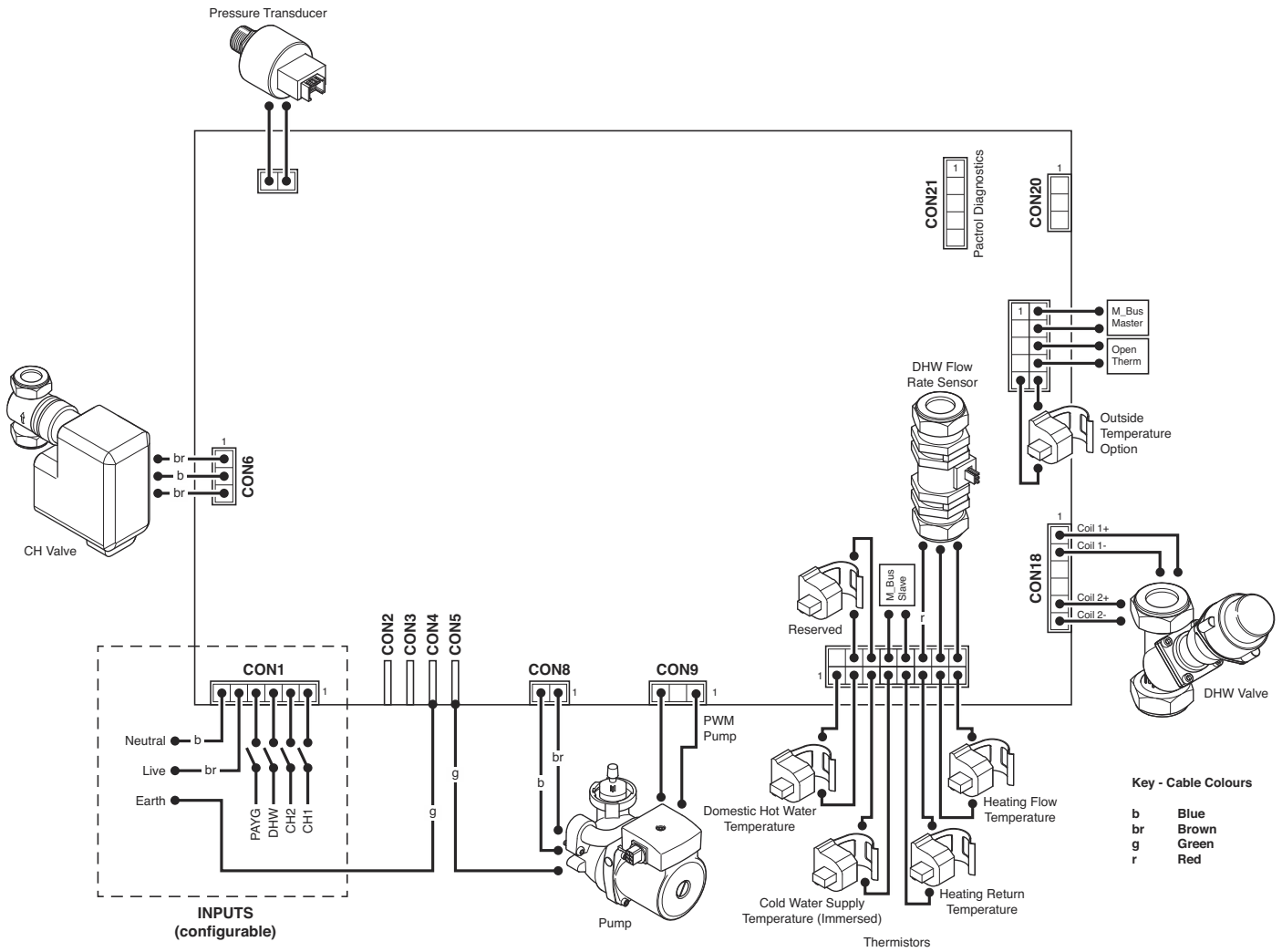
It gives similar performance and operational characteristics to a modern heating appliance. Accurate modulation of heating and domestic hot water, incorporating PICV (pressure independent control valves).

Constantly monitors and controls the return temperature for efficient operation.

Enables the control to meet the BESA test standard.

## Key Features

- Connection to a bipolar 5V stepper motor valve for DHW. Predictive control for fast and stable DHW response allowing low VWART figures
- Connection to a 230V motor valve for CH
- Utilises a flow turbine sensor for accurate control of DHW demands
- Frost protection built in
- Pump modulation for controllable space heating return temperatures to enable low VWART figures
- Pump operation, anti sieze and over run features
- Opentherm capability for modulation of heating temperature
- MBus master and slave connections
- Pay as you go features. Pre-payment management
- Water pressure sensing and run checks for safe operation
- Diagnostic output for evaluation of faults
- LCD display with user, service and engineer setting options
- Preheat function for fast response or Eco mode for cost efficiency
- Conforms to low voltage and emc directives
- Either copper pipe with clip temperature sensor or immersed sensor using stainless steel pipe
- Anti-jamming functions built in
- Outside temperature sensor input for temp compensation



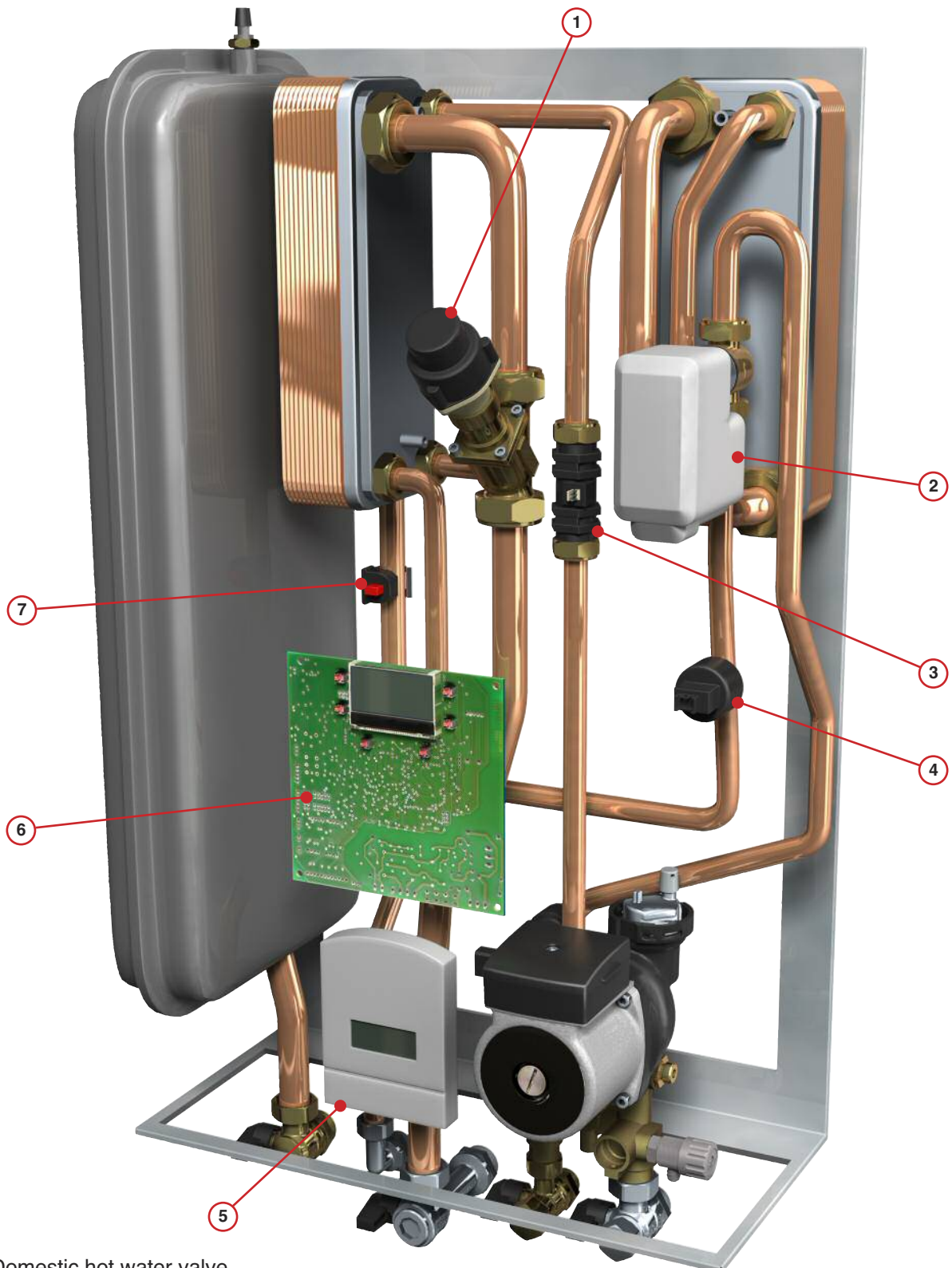
Sensor List

Temperature - Cold in	Tasseron: TSD40A8
Temperature - Hot out	TOD: 36J
Temperature - CH flow	TOD: 36J
Temperature - CH return	TOD: 36J
Temperature - District return	TOD: 36J
Flow - Domestic hot water	HONEYWELL
Pressure	HUBA: 505.931B2
Pressure	HUBA: 505.931B2
Pressure - CH	HUBA: 505.931B2

Valve List

DHW	Frese 53-1308 – DN20 Optima Compact PICV, High Flow 5mm stroke, Male/Male connections 01-1881 – Fast Acting Actuator 5V for PICV, supplied with Molex connector 96218
CH	Various options available

Illustration purposes only



- 1 - Domestic hot water valve
- 2 - Central heating valve
- 3 - Domestic hot water flow rate sensor
- 4 - Pressure transducer
- 5 - Heat meter
- 6 - Heat interface unit PCB
- 7 - Thermistor

This information may be modified at any time.

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