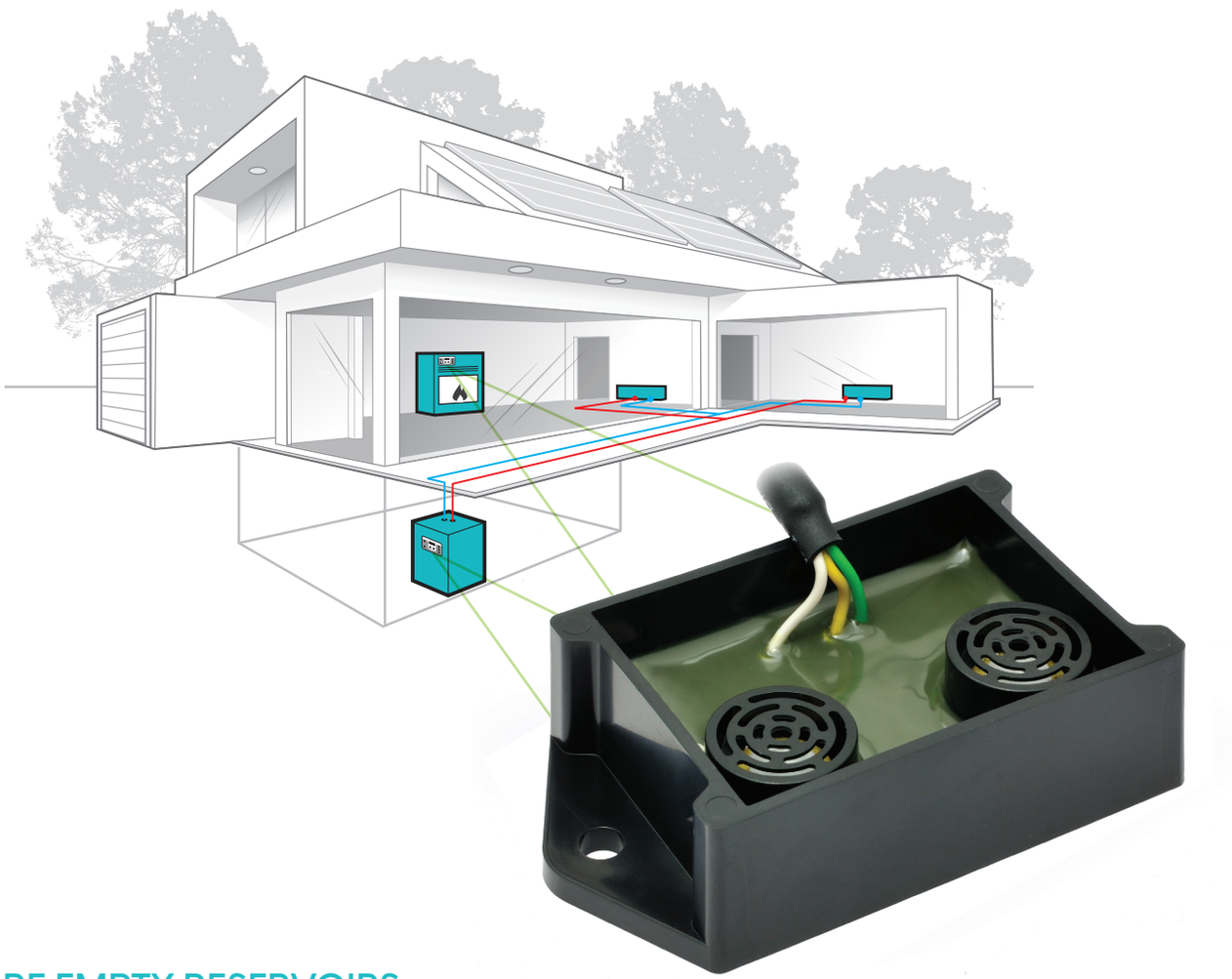
Info Sheet

Fumis LevelTronic

Biomass Level Sensor



NO MORE EMPTY RESERVOIRS

Fumis LevelTronic raises the control of fuel level in reservoirs used in biomass heating devices to the next level. With FUMIS LevelTronic your combustion device not only gives a warning signal at the "reserve" level, it will constantly provide an exact measurement of biomass level. In combination with FUMIS Combustion Controllers users have available the AUTONOMY prediction so they can comfortably plan and optimize their biomass replenishment. Additionally, FUMIS controllers will stop the burning before the system is completely empty thus after refilling the system can restart immediately.

Target applications:

BIOMASS STOVES and BOILERS using Fumis controllers: in this case LevelTronic provides the AUTONOMY predicition expressed in combustion hours available with the fuel present in your reservoir. Additionally, the combustion is stopped before emptying the complete system thus restart after refill is reliable and fast;

BIOMASS RESERVOIRS and buffer reservoirs in all kinds of biomass heating or storage applications: in this case you have available a precise and reliable measurement of the reservoir level so you can build your reservoir management around it.

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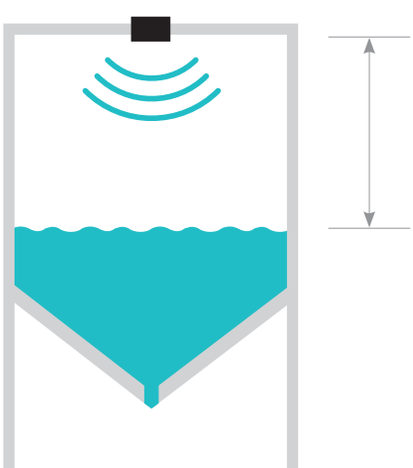
Installation with Fumis controllers:

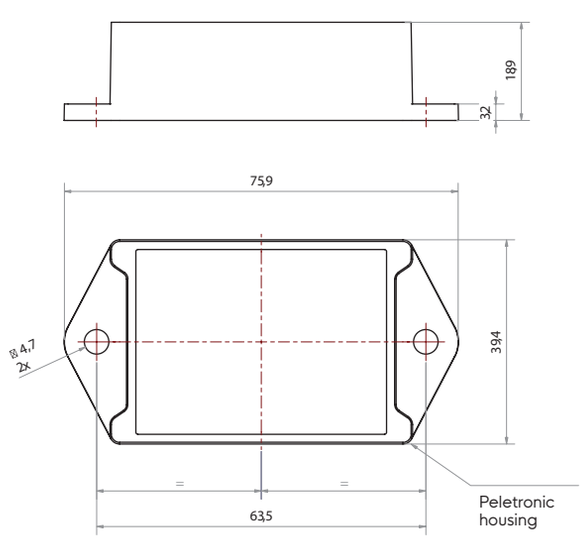
LevelTronic comes with a connecting cable that directly fits to FUMIS ALPHA series of combustion controllers. You only need to use the PCPRO controller set-up programme, enable the LevelTronic option and set the full, warning and empty levels or run the automatic reservoir calibration.

General purpose usage:

LevelTronic outputs a PWM signal. The duty cycle is proportional to the measured distance. The output PWM signal can be filtered to DC voltage and measured with voltmeter or AD converter.



Mounting:



Technical characteristics:

LevelTronic is a non-contact distance meter that uses ultrasound to measure the distance between the sensor and the material that is being measured.

LevelTronic is designed to compensate for the cone of depression, which forms in the container when the material is extracted. The particular contruction requires no maintenance.

SPECIFICATIONS	
Measurable distance (from top of the sensors):	10 cm - 2,0 m
Accuracy:	10 mm
Power supply voltage:	9 V - 30 V DC
Power consumption:	typical 10 mA, max. 20 mA
Temperature range:	-20 °C to +70 °C (at max. 40 % humidity), +60 °C (at max. 60 % humidity), +25 °C (at max. 95 % humidity)
Output:	5 V PWM, frequency 2 kHz
Resolution:	1 cm (cca 20 m V/cm)
Dimensions:	75,9 x 39,4 x 18,9 mm

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