Pig-let controller

AL01

ANIHEATER – Digital Control
AL01-DISP

Press and hold - start/stop program
Short press - move a day forward/backward
Press both - reset alarm

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Pig-let controller

AL01

Table of contents

1. Introduction

The PIG-LET BF24X2 farrowing pen control is designed to support the daily work in the farrowing unit. The system is built to optimize operations, reduce energy consumption and increase the employee's awareness of irregularities or incidents that require intervention.

The PIG-LET BF24X2 farrowing pen control is a device that handles several parameters around a farrowing pen with the aim of increasing animal welfare, reducing avoidable mortality, and promoting the well-being and growth of the piglets.

The solution also supports a sustainable farm through reduced energy consumption, which in tests has shown a reduction of 40-60% compared to a traditional farrowing pen.

The system collects and registers information about the sow's drinking water consumption and monitors the temperature conditions in the piglets' den.
Based on this information, the system offers:

- Announcement of the farrowing-time.
- Warning of potential disease affecting the sow.
- Ensure optimal conditions in the piglet's den.
- Acclimatize the pigs so that weaning stress is reduced.

Pig-let controller

AL01

2. Warnings and Safety Instructions

The system must be installed so that there is no possibility that sows and pigs can damage the technical installations. Including data cables, live cables and water hoses.

IP65 protection protects against water ingress – but cleaning with direct contant of the pressure washer must be avoided.

Electrical installations must be carried out by professionals in accordance with the Electrical Installation Act. The Installation Order DS/EN 60364.
All devices must be grounded.

The devices must not be exposed to harmful overvoltage.

The system is designed as an auxiliary tool and does not relieve staff of their duty to supervise operations. The system and the system supplier can therefore not under any circumstances be held liable for operating losses and the like.

3. Conditions

For the PIG-LET BF24X2 controller to function as intended, it must be ensured that the following things are present:

- 230VAC 50Hz mains supply.
- Stable WIFI
- Access to the Cloud
- Smartphone with access to the internet

Each PIG-LET BF24X2 control box is an independent unit that handles temperature control and collection of data on water and energy consumption locally.
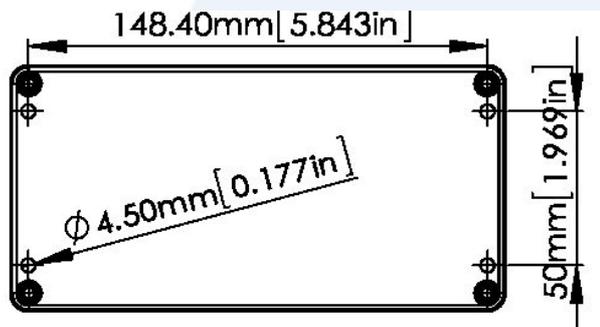
Each PIG-LET BF24X2 CONTROLLER can control two farrowing pens.

Pig-let controller

AL01

4. Assembly and installation

Each PIG-LET BF24X2 CONTROLLER can control two farrowing pens.

Step 1 Mounting the Pig-LET BF24X2 controller.

The control box is to be mounted on the wall between the two farrowing pens that it is to monitor. The control box is secured with screws suitable for fixing it to the wall in question.

Step 2, Installation of water sensor

- The water sensor is equipped with an external 1/2"RG.
- Pay attention to the flow direction (see arrow on sensor)
- For best accuracy the sensor should be mounted so the water travel vertically
- Make sure the water sensor is placed so that it is out of reach of the pigs
- and so that the 3-meter cable can reach the Pig-LET BF24X2 controller.

Pig-let controller

AL01

Step 3, Temperature sensor installation

The temperature sensor is carried forward together with the power cable to the heating panel and is attached to the cable approximately 50mm before the panel.
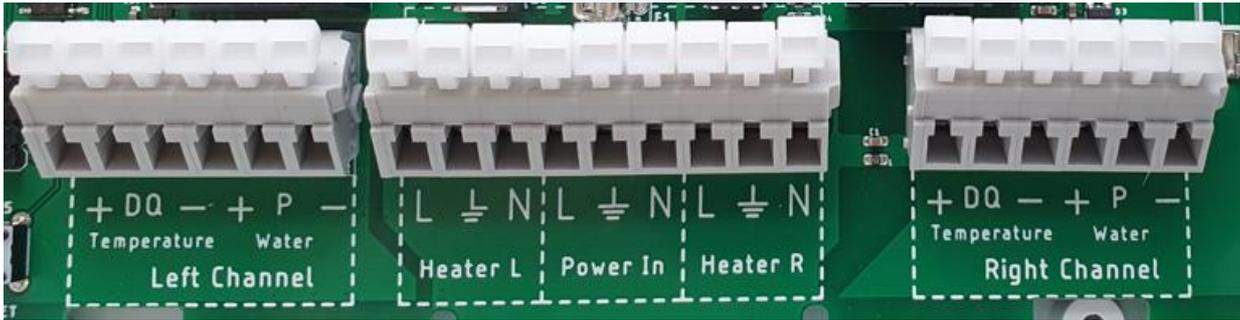Cable ties are used for fastening.

Pig-let controller

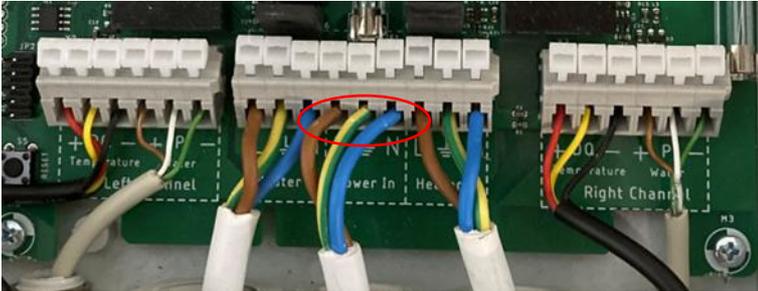AL01

Step 4 electrical connections

Temperature sensor, water meter, heater and mains are connected to the box according to instructions on the PCB's terminals. Safety instructions must be observed ref. section 2
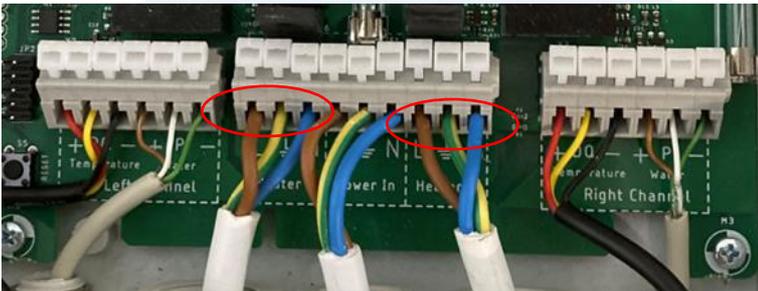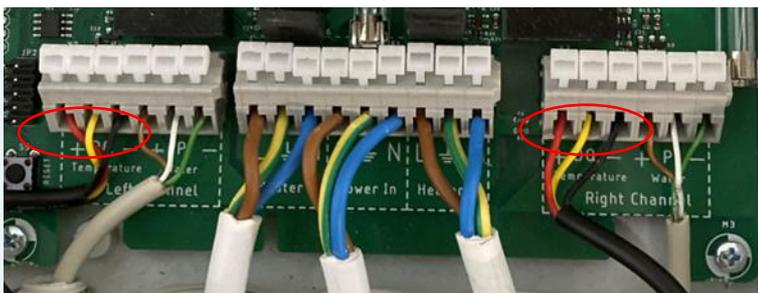
Pig-let controller

AL01

Step 4.1 Connecting 230VAC supply
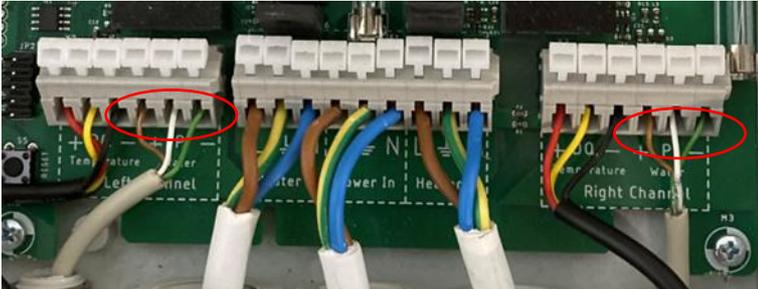

Step 4.2 Connecting the Aniheater heating panel.

Step 4.3 Connecting the Temperature Sensor

Pig-let controller

AL01

Step 4.4 Connecting the Water Meter

5. Connecting to the cloud (onboarding)

When the PIG-LET control box is connected to mains, it will connect automatically to the Cloud via Wi-Fi.

Wi-Fi codes stored in the PIG-LET control box will automatically search for a WI-FI.

WIFI SSID: Stald
Password: 5555599999

PIG-LET BF24X2 CONTROLLER Controller is connected/onboarded to the Cloud via   https://comadan.senti.cloud/

Onboarding is done through Comadan Device Configuration with a smartphone, that with it's camera scans the two QR codes on the PIG-LET BF24X2 CONTROLLER (one QR code for each side - right and left sides, respectively)

Once the configuration of the PIG-LET control box is over, the control box can be accessed on the platform and the installation is complete.