



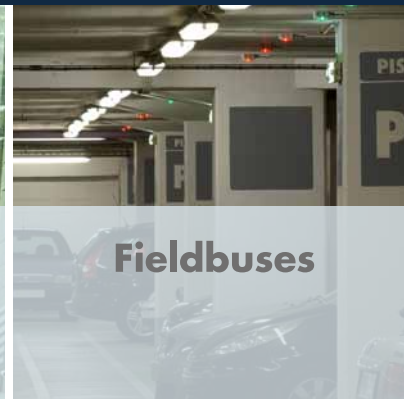
Sensors



Switches



Controls



Fieldbuses

Application notes



Application Note : August 2015

Market involved : Agriculture

Product : RGC1P23V30ED

Customer : OEM

Subject : Power control of radiant heaters

CUSTOMER ISSUE :

It is important that ambient conditions are optimal to ensure the well-being of livestock.

For this reason, environmental conditions should be continuously monitored and temperatures adjusted accordingly.

In pig farms, ambient heating is provided by radiant heaters. A simple and cost effective way is needed to regulate the power of such heaters in accordance with the monitored need.

OUR SOLUTION :

The RGC1P23V30ED can be fed directly with an analog signal (0-10V) available from the temperature measuring instrument.

The RGC1P on-board microcontroller will interpret the input signal and translate this into the necessary % of output power.

A phase angle switching mode is used to avoid any flickering of the heater lamps that could disturb the livestock.

BENEFITS :

- **Increased productivity** by keeping the environment of livestock in optimum conditions
- Ensuring a **comfortable environment** for livestock by utilising phase angle switching that is available with the RGC1P series
- **Time & space savings;** a compact, one component, easy-to-use solution that enables output power control with an analog signal