In nature the CO\textsubscript{2} level in a chicken's nest is around 0.4% or 4000ppm compared to the surrounding air that has only 400ppm. Keeping the CO\textsubscript{2} level in an incubator between 4000ppm to 6000ppm is necessary for a normal development. Especially in the late development of the eggs, the embryonic production of CO\textsubscript{2} increases as incubation proceeds and therefore should be removed from the environment to keep the CO\textsubscript{2} at a safe level.

Also in the research of cross-breeding or genetically modifying plants, a controlled CO\textsubscript{2} environment is key to speed up the development process.
What solution can Rotronic offer?

Rotronic offers a wide range of products for controlling and monitoring incubators. The range starts from various humidity and temperature transmitters respectively probes or even customized OEM transmitters specifically designed to fit the individual incubator designs. All the humidity measurement equipment comes with the industrial capacitive foil sensor HygroMer IN-1 and uses the new AirChip3000 technology with its advanced features. Rotronic also provides various options for controlling CO₂ levels. Our CO₂ transmitters are based on the non dispersive infrared technology. The typical lifespan of 15 years guarantees a long use of the incubator and underlines the high quality of the transmitter.

Rotronic products:

Humidity and temperature probes:
- **HC2-IM102**
  -100...200°C,
  0...100%rh,
  Ø15mm,
  ±0.8%rh and ±0.1K...
- **HC2-IC102**
  -100...200°C,
  0...100%rh,
  Ø15mm
  ±0.8%rh and ±0.1K...
- **HC2-IC102-A**
  -100...200°C,
  0...100%rh,
  Ø15/25mm,
  ±0.8%rh and ±0.1K...

Transmitter rh & °C:
- **HF5 series**
  Stainless steel probe,
  -100...200°C,
  3/4 wire configuration,
  Various analogue outputs,
  Optional display...
  Transmitter CO₂:
- **CF5 series**
  0...2'000 ppm,
  ± 30 ppm
  0...50°C ± 2°C
  24 VDC/VAC power supply,
  2 analogue outputs,
  Optional display...

Customer benefits:

Accuracy:
Choosing Rotronic gives you the best accuracy on the market. So, it doesn’t matter what you are monitoring or controlling you can always rely on the measured data.

Long term stability:
Apart of the exceptional long term stability of our IN-1 humidity sensor, that is better then 1%rh per year, Rotronic also selects only high quality state of the art sensors for other parameters. This ensures that we provide long living reliable products.

Communication:
With all of the different communication methods, from conventional analogue output signals to RS-485, Wireless or Ethernet RJ45, Rotronic can provide the individual solution for each installation.

Easy to handle:
Since our HW4 software is used for almost all of our devices, it is extremely convenient to reconfigure or adjust the units. And it does not end there! With the HW4 software it is even possible to build up a professional validated monitoring system that fulfills all the requirements according to FDA 21 CFR Part 11.
Contact us:

Rotronic is represented in more than 40 countries around the world. An up to date list of all our partners is available at www.rotronic-humidity.com/international

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