

# CC

## Livestock Climate Controllers



From left to right: Farm Hand, F. Master, F. Hand, F. Center and F. Pro.

### What are your control needs?

The CC range of climate controllers from Munters offers a wide variety of control solutions for livestock structures; from base models to extensive models and several models in-between. To ensure a customised solution for each structure, each of the controllers is freely configurable to control different types of equipments such as Euroemme® fans; pumps to wet CELdek® evaporative cooling pads; Sial® heaters; actuators for inlets or curtains and many more. Stable growth conditions around the animals can easily be created by numerous environmental inputs into the control algorithms. Amongst other environmental inputs that can be read are air temperature, air humidity, animal water consumption, feed consumption and equipment status. A variety of output options are available for the switching and modulation of equipment; digitally (relay) or analogue (0-10V).

### Complete solutions

Up to date management information can be extracted from the CC range of controllers through a conventional PC by networking the PC and controllers. Via such a network controller settings can be updated with the click of a button; weight gain or feed consumption can be displayed; equipment status and sensor readings can be viewed; all from the comfort of the site office or even a remote office. Part of the extensive product support package offered by Munters comprises all the necessary hardware and software for networking of the controllers.

Things can go wrong. Exactly for this reason it is necessary to have alarm outputs or free standing alarm units to warn in case there are any threats to your investment. Once again Munters also offer the necessary complementary products.

- Versatile family of controllers

#### FarmHand

- Temperature and RH readings and control
- Relays and variable speed outputs
- Ideal for step control of ventilation

#### FarmMaster / FarmCenter

- Economical solution for sophisticated climate control of many small rooms in close proximity
- Extensive user interface on FarmCenter
- Full function controller

#### FarmPro

- Extensive control of many functions within one structure
- Free relay assignment to suit individual installation
- Numerous menu shortcuts for quick programming



## CCU FarmHand



Whenever there is a need to control only a selected number of functions in a single structure, the FarmHand controller series is ideally suited. Functions such as step control of ventilation; heating; cooling or side curtains can be controlled. Analogue inputs (air temperature and humidity or potentiometer feedbacks) and digital inputs (water consumption or wind speed) can be accommodated. Programming is conveniently done using a 2 line LCD display and navigation buttons. Control outputs are either relays or 0-10V signal.

For convenient control a target temperature curve can be programmed while a large onboard memory keeps track of actual readings.

## CCL FarmCenter/FarmMaster



The FarmCenter / FarmMaster series solves the problem of providing an economical though extensive control solution to a large quantity of small rooms in close proximity such as a swine nursery structure. The FarmCenter acts as a central communication and memory storage hub equipped with a comprehensive keyboard and large LCD screen. From here the status and settings of up to 10 networked FarmMaster controllers can conveniently be accessed. FarmMaster controllers act as stand alone controllers for the individual rooms; all inputs are received by the FarmMaster; all processing of data is done by the FarmMaster; and, all output signals are sent by the FarmMaster. An extensive array of digital and analogue inputs and outputs covering numerous types of equipments can be accommodated by the FarmMaster controllers.

## CCL FarmPro



The FarmPro series of controllers provides an economical means of controlling large quantities of equipment covering many different functions inside a single structure. A large LCD screen and extensive key-pad make navigation of the menu structure an easy task. For convenience numerous short cuts as well as LED indicator lights make it quick and easy to get a grasp of equipment activity and sensor readings.

Be in control of all the functions in your poultry house: Ventilation fans, air inlets and curtains; heating; cooling; feeding; light programs; feed inventory and feeding programs; bird weighing; all from a single controller.



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