

# X-Controller

A universal solution for DDC-Instrumentation



COMPLETE  
INFORS HT  
PACKAGE

- ▶ A complete Package
- ▶ Flexible
- ▶ Expandable
- ▶ INFORS-Compatible



[www.infors-ht.com](http://www.infors-ht.com)

May be subject to technical amendments

INFORS HT

# Revamping, upgrading and special constructions on the bench scaletion

## ▶ A complete package

X-Controller is not just a PLC (programmable logic controller) but a full system with amplifiers, pumps and connections for heaters, motors etc.

## ▶ Flexible

Many options exist for linking an X-Controller to existing equipment and adding new capabilities via an integrated analogue signal connector.

## ▶ Expandable

Up to 4 X-controller boxes can be linked to a single operating panel and it's possible to have each one configured differently.

## ▶ INFORS-Compatible

The X-Controller uses the X-DDC instrumentation common throughout most of the INFORS range and can link to IRIS software to allow existing bioreactors to gain the benefits of modern process control.



### Measurement & Control Parameters

- Stirrer Speed
- Temperature
- pH
- pO2
- Antifoam/Level
- MassFlow
- Feed
- GasMix

#### For system expansion, there is available:

- 4 Analogue In 0–10V/0–20 mA or 4-20mA
- 6 Analogue Out 0-20 or 4-20mA
- 2 x Digital Out
- Up to 5 x Mass Flow Valves via Modbus

#### Via PC and IRIS process control software

- Balances
- HPLC and Mass Spectrometers

### Measurement & Control Parameters

The digital X-DDC is a high-performance, modern system, that was developed as the next generation for control of bioreactors, fermenters and process vessels. As well as a responsive

keypad and 16-line display, the operating panel also has a „navigation knob“, allowing quick access to functions in the menu-driven options. Each base can access up to 16 channels.

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