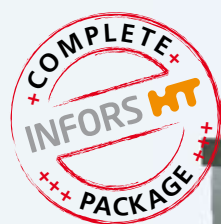


# X-Controller

A universal solution for DDC-Instrumentation

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

# 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 fermenters 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.

Infors AG  
Headoffice, Switzerland

Rittergasse 27  
CH-4103 Bottmingen  
T +41 (0)61 425 77 00  
F +41 (0)61 425 77 01  
headoffice@infors-ht.com

Infors UK Ltd

The Courtyard Business  
Centre, Dovers Farm  
Lonesome Lane, Reigate  
Surrey, UK-RH2 7QT  
T +44 (0)1737 22 31 00  
F +44 (0)1737 24 72 13  
infors.uk@infors-ht.com

Infors Sarl

6, rue Marcel Paul  
FR-91742 Massy Cedex  
T +33 (0)169 30 95 04  
F +33 (0)169 30 95 05  
infors.fr@infors-ht.com

Infors Italia S.r.l.

Via Barbara Melzi, 13  
I-20025 Legnano (MI)  
T +39 0331 59 47 67  
F +39 0331 54 40 99  
infors.it@infors-ht.com

Infors GmbH

Tannenweg 2  
D-85254 Einsbach  
T +49 (0)8135/83 33  
F +49 (0)8135/83 20  
infors.de@infors-ht.com

Infors Benelux BV

Logistiekweg 20-02  
7007 CJ Doetinchem  
P.O. Box 613  
NL-7000 AP Doetinchem  
T + 31(0)314-36 44 50  
F + 31(0)314-37 80 76  
infors.bnl@infors-ht.com

For more information please visit:  
[www.infors-ht.com](http://www.infors-ht.com)