



# COMMUNICATION INTERFACES

COMPLETE CONTROL FOR PUMPS AND PUMP SYSTEMS

## THE CIM/CIU CONCEPT

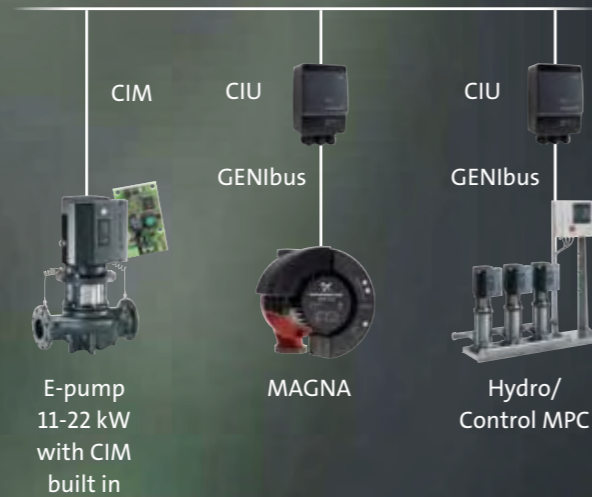
For complete control of pump systems, the Grundfos fieldbus concept is the right solution. The newly-developed Communication Interface Module (CIM) and the Communication Interface Unit (CIU) enable data communication via open and interoperable networks such as Profibus DP, Modbus RTU, LONWorks, BACnet MS/TP®, GSM/GPRS, or using Grundfos Remote Management.

The series of Grundfos CIM/CIU communication interfaces offer ease of installation and commissioning, user-friendliness and great value for money in the long term. All modules are based on standard functional profiles for an easy integration into the network and easy understanding of data points.

### When to use CIM and CIU

CIM modules are add-on modules that allow communication with 11 to 22 kW E-pumps, Dedicated Controls and the new Hydro Multi-B.

The CIU communication interface unit is for products with a GENIbus interface such as small E-pumps, circulation pumps and boosters. CIU units have an integrated 24 to 240 V power supply and are prepared for wall-mounting or DIN-rail mounting.



## THE IDEAL SOLUTION

The Grundfos CIM/CIU communication interfaces enable the connection of Grundfos products to standard fieldbus networks, offering substantial benefits:

- Complete process control
- One concept for Grundfos products
- Modular design – prepared for future needs
- Based on standard functional profiles
- 24-240 VAC/DC power supply in CIU modules
- Simple configuration and easy to install
- Open communication standards

### Integration CD for fast commissioning

With every CIM/CIU communication interface module, Grundfos gives you an integration CD that ensures easy integration into supervisory systems and fast commissioning. You are provided with functional profiles, documentation and installation files, ready to use.

The CIM/CIU PC Tool with support for Modbus, GENIbus, Profibus and BACnet are included for easy integration into SCADA systems.

Your Grundfos CIU/CIM communication interface solution can be connected to any SCADA, PLC or Building Management System for communication using the applicable open protocols for wired and wireless communication.



## WHY GRUNDFOS CIM/CIU MODULES MAKE GOOD SENSE

Open and interoperable data bus networks are becoming increasingly important for supervisory systems monitoring pump systems, and Grundfos is committed to open protocols. You gain an optimal, flexible and therefore cost-effective integration of data communication and field devices such as pumps or pump systems into management systems.

Taking complete control of your pump system in this way offers many advantages. The time spent on reporting, data collection, and so on is minimised – as are service visits. When you always know how your pumps are doing, maintenance visits can be scheduled for maximum efficiency – and emergencies reduced to the barest minimum.



## CIM/CIU COMMUNICATION INTERFACE PRODUCTS

- > CIM 050 for GENIbus
- > CIM 100/110 and CIU 100/110 for LONWorks networks
- > CIM/CIU 150 for Profibus DP networks
- > CIM/CIU 200 and CIU 202 for Modbus RTU networks
- > CIM/CIU 250 and CIU 252 for GSM/GPRS networks
- > CIM270/CIU 271 and CIU 272 for GRM
- > CIM/CIU 300 for BACnet MS/TP networks

Supports a wide range of Grundfos products, for detailed information see the table below:

	MAGNA/ UPE 80-120/100-120	0.25 - 7.5 kW E-pumps	11 - 22 kW E-pump	CUE	Hydro MPC	Multi-E	MP 204	Dedicated Controls	Sewage AUTOADAPT	Hydro Multi-B
GENIbus	UPE: built in MAGNA: add on	built in	built in (CIM 50)	built in	MPC GENIbus add on	built in	built in	CIM 050		CIM 050
LON										CIM 110
Profibus DP										
Modbus RTU										
GSM/GPRS/SMS (e.g. for SCADA)										
BACnet MS/TP										
GRM (Grundfos Remote Management)										

11-22 kW TPED need to use the CIU units

For more detailed information, see the CIM/CIU communication interface leaflets.

## SEE THE BIGGER PICTURE

Grundfos is a global leader within water handling technology. Our passion is to bring you all the products you require to create and operate pump systems that combine reliability, cost-efficiency – and innovation. Our products are for use in water supply and wastewater infrastructure on any scale.

Grundfos has a full line of products and systems for the intake, treatment, and distribution of drinking water and for the transport and treatment of wastewater. We also offer expertise and industry insight that can increase reliability and reduce lifecycle costs for water utilities.

Key product areas include:



Submersible pumps



Surface pumps



Sewage pumps



Mixers, flowmakers & recirculation pumps



Pumping stations



Monitoring & controls



Dosing & disinfection



Aeration equipment

Further details about Grundfos communication interfaces and Remote Management are available on request – contact your local Grundfos office or representative.

Our products are the result of decades of engineering expertise. Supported by a worldwide service network. Visit [www.grundfos.com](http://www.grundfos.com) for more.

### GRUNDFOS A/S

Poul Due Jensens Vej 7  
DK-8850 Bjerringbro  
Tel: +45 87 50 14 00

[www.grundfos.com](http://www.grundfos.com)

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