

June 2019

GIFA 2019, Hall 10, Stand A74

Supporting all automation concepts:

Gas control for casting and thermal processing technology

Summary:

At GIFA, Bürkert is presenting gas controls customised for a variety of casting plants. The mass flow controllers are suitable for solutions fitted with analogue interfaces all the way up to complete Industry 4.0 systems.

Long version:

Industrial plants for producing steel, for casting or for thermal processing technology place different requirements on their gas supply and rely on different automation concepts. Therefore, communication between components must always be tailored to the specific needs of the plant. As part of this year's GIFA, Bürkert Fluid Control Systems (see company box) is presenting a range of automation concepts for gas control (Image 1) based on its proven mass flow controllers (MFC). Possibilities range from data exchange through to "conventional" analogue standardised interfaces and digital networking using all common fieldbus protocols all the way to plug-and-play MFC assemblies, not to mention complete control cabinets including all components for gas control (Image 2).

Tailored automation concepts

For smaller or simpler plants where only small amounts of data need to be transferred, the conventional analogue interface is the ideal choice. Start-up and maintenance are

Bürkert Fluid Control Systems

Christian-Bürkert-Str. 13-17 • 74653 Ingelfingen

Phone +49 7940 10-0 • Fax +49 7940 10-91204 • info@buerkert.de • www.buerkert.de

straightforward, and signals can be checked with the help of simple aids. These vendor-neutral devices operate independently of the controller and are extremely easy to replace.

If diagnostic data, device state etc. are to be transmitted in addition to set-point and actual values, the mass flow controllers can communicate via digital interfaces, e.g. PROFINET, EtherNet/IP, PROFIBUS DP, Modbus TCP, EtherCAT, CANopen or RS485. Gateways and Bürkert's proprietary büS network also allow the integration of other protocols - for gas-control functions that are fully compatible with Industry 4.0.

Plug-and-play complete solutions, which can easily be connected to the higher-level controller for precise dosing and logging of gas volumes, can be realised with digital as well as analogue interfaces. The MFC assemblies and complete control cabinets are tailored to the application requirements. The entire fluid control layout is factory-tested, ensuring that installation and start-up can be completed easily and quickly on site.

Simple configuration, parameterisation and diagnostics

In all automated gas-control solutions, the "Communicator" software simplifies the configuration, parameterisation and diagnostics tasks. This practical EDIP tool (Efficient Device Integration Platform) is suitable for analogue and digital devices. It gives the user a complete overview of all cyclical process values as well as all acyclic diagnostic data. Device configurations can be backed up and restored and the integrated, graphical programming environment makes it possible to create control functions for decentralised sub-systems. Connections to a PC can also be established on the fly using a USB-CAN adapter.

Image 1: Tailored automation concepts for gas control: delivering the optimum communication solution at all times. (Source: Bürkert Fluid Control Systems)

Press release



Image 2: Plug-and-play complete solutions can easily be connected to the higher-level controller for precise dosing and logging of gas volumes.
(Source: Bürkert Fluid Control Systems)

Further information can be found at: <https://www.burkert.com/en/Company-Career/Whats-New/News/Buerkert-GIFA-2019>

Press contact:

Bürkert Fluid Control Systems

Mirjam Becker

Phone +49 7940 10-96857

mirjam.becker@burkert.com

About Bürkert Fluid Control Systems

Bürkert Fluid Control Systems is one of the world's leading manufacturers of measuring, control and regulating systems for liquids and gases. Bürkert solutions are used in a wide range of industries and applications – ranging from breweries and labs to medical, bio-engineering and aerospace technology. With a portfolio of more than 30,000 products, Bürkert is the only supplier to offer all fluid control system components, from solenoid valves to process and analytical valves, from pneumatic actuators to sensors.

With its headquarters in Ingelfingen in southern Germany, the company has a wide-ranging sales network in 36 countries and more than 2,800 employees worldwide. Bürkert continuously develops customized solutions and innovative products at its five Systemhaus locations in Germany, China, and the USA, and in four research centers.

Further information is available from the links below:

Bürkert Fluid Control Systems

Christian-Bürkert-Str. 13-17 • 74653 Ingelfingen

Phone +49 7940 10-0 • Fax +49 7940 10-91204 • info@buerkert.de • www.buerkert.de

Press release



www.burkert.com

www.facebook.com/Buerkert.Fluidtechnik

www.twitter.com/buerkertfluid

Characters, incl. spaces (without caption and 'About Bürkert Fluid Control Systems'): approx. 2,670
Characters, incl. spaces 'About Bürkert Fluid Control Systems': approx. 1,000

Bürkert Fluid Control Systems

Christian-Bürkert-Str. 13-17 • 74653 Ingelfingen

Phone +49 7940 10-0 • Fax +49 7940 10-91204 • info@buerkert.de • www.buerkert.de