

DIWICON-G DW 628 GEx

EXPLOSION-PROOF FIELD CONTROLLER

OVERVIEW

The DW 628 GEx is primarily designed for gas industrial stations, exchanges, processing and forwarding of field corrector technological signals and the remote management of transfer stations. The technological parameters of the gas stations are collected by integrated peripheral devices. The device is capable of precision measuring of analog field signals. The device has an internal power supply that allows independent functioning for several years depending on application. The DW 628 GEx is the world's first such device to apply redundant industrial GPRS (iGPRS) communication.



FEATURES

- 8 analog / digital inputs
- Isolated serial port
- Optional motion detector
- Optional explosion-proof gas detector
- Optional external power supply connection

FUNCTIONS

- Management of inputs
- Data processing
- Data registration
- Complete remote management
- Precise measurement of analog signals

COMMUNICATION

- Redundant communication
- GPRS based communication
- Integrated GSM modem
- Serial port connector

DESIGN

- ATEX certification
- Explosion-proof design
- Intrinsic safety design

TECHNICAL DATA

Power supply:	3.6 VDC internal power	Optional peripherals:	<ul style="list-style-type: none"> • Motion detector • Isolated serial port • Explosion-proof gas detector
Power capacity:	140 Ah	Electrical protection:	IP67
External power:	24 V DC (optional)	Housing material:	G AISi12
Power consumption:	Application dependent 3.2 to 6.2 mA	Environmental temperature:	-35°C to +60°C
	Application dependent 11.5 to 22.3 mW	Storage temperature:	-40°C to +85°C
Communication:	GPRS based modem	Maximum Humidity:	98%
Number of inputs:	8 channels, analog/digital	Ex protection:	II2 G EEx d ia IIB T6
Analog input:	0 to +3.3 V / 1 MΩ	Certificate Number:	BKI 05 ATEX 014X
Digital input:	+3.3 / 1 mA (1 MΩ)		

GENERAL INFORMATION

BACKGROUND

The DW 628 GEx B explosion-proof field controller is used primarily for the processing and forwarding of industrial technological signals. It has been used for applications in the gas, chemical, and oil industries. Thanks to the product's innovative solutions its communications devices are at the worldwide cutting edge.

BENEFITS

The most important characteristics of this field controller are the iGPRS communication, SIM redundancy, minimal power consumption, and the 8 jumper-set, analog/digital inputs. Additionally, the device incorporates an isolated serial port. As options, the device can be equipped with an explosion-proof gas detector and a motion detector.

APPLICATION

The compact design allows for use in any industrial setting. It can be used both indoors and outdoors due to its IP67 design. It is resistant to dust and fumes so it can be used in explosion hazard zones (zone 1, zone 2). It carries internationally recognized ATEX certification.

POWER SUPPLY

The device requires a 3.6 VDC power supply. The electronics are powered by an internal 140 Ah capacity power supply. The power supply can be removed. When the housing is opened, the internal tumbler switch immediately cuts power.

ELECTRICAL DESIGN

The intrinsic safety design electronics are very compact. The intrinsic safety sections of the circuit board are isolated. The isolated serial port allows for serial communication in explosion hazard areas. The device has been designed with dual SIM card slots making it capable of redundant communication.

ELECTRICAL INPUTS

The electronics are equipped with 8 electrical inputs. The inputs can be set to either analog or digital mode by adjusting the appropriate jumpers. The analog inputs are allowing for high precision measurements.

COMMUNICATION

With event-oriented communication, the device offers the most economical GPRS based communication on the market. Communication is packet-switched and can be comprehensively adjusted remotely according to need.

MECHANICAL DESIGN

The electronics and power supply are installed in an explosion-proof housing. The electronics and GSM antenna are positioned in the upper dome and the power supply in the base. The entire device is easily mounted by the hole in the tab on the base.



Product	Version	Corrector polling	8 integrated I/Os	External Power	Motion Detector	Explosion-proof gas detector
	B	1	2	3	4	5
DW 628 GEx	B12	X	X			
DW 628 GEx	B123	X	X	X		
DW 628 GEx	B124	X	X		X	
DW 628 GEx	B125	X	X			X
DW 628 GEx	B1234	X	X	X	X	
DW 628 GEx	B1235	X	X	X		X
DW 628 GEx	B1245	X	X		X	X
DW 628 GEx	B12345	X	X	X	X	X

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