

GDC-Ex

GENERAL DISPLAY & CONTROLLER

For Explosion Hazardous Location

THE ADVANTAGE

Universal Terminals: Use with Cross Smart Sensors for measurements of water analysis, gas analysis and process control.

Advanced Display: OLED Screen standard, bright and bearing -40 °C environmental temperature.

Digital Interface: Standard RS485/Modbus or optional Hart Protocol, FF, Profibus.

4-20 mA output and Alarm Relays: Flexible configurations for all applications.

GDC-Ex Explosion Proof Terminal: Magnetic screwdriver through the display window facilitates set up, eliminating the need to open the enclosure cover.

Bluetooth 5.2 for easy setup and calibration by smart phone and pad .

Explosion-proof approved, Ex d IIC T6 Gb

DESCRIPTION

GDC-Ex (General Displayer & Controller) series terminals are designed for continuous measurements with Cross Smart Sensors in a general purpose industrial or municipal environment. Standard GDC terminals can be extended to network by intelligent sensors with RS485 output, Modbus RTU protocol. GDC terminals supply power and communicate with sensors to acquire signals. A plug and play function is available for those sensors in our recommended list, that means if you plug an intelligent sensor into a GDC and it will automatically configure to any of the listed measurements. GDC terminals can be expanded to work with any sensors with digital outputs for customized configuration.

There are alternative two-wire terminals of GDC-Ex that are loop-powered and work with some electro-chemical analog sensors like PH7A, RX7A, MV7A and CS7A. Consult factory for details.



GDC-Ex



Low Voltage Directive 2014/35/EU

Electromagnetic Compatibility Directive 2014/30/EU

RoHS 2 Directive 2011/65/EU

EN 61010-1:2010; EN 61326-1:2013

GENERAL DISPLAY & CONTROLLER



SPECIFICATIONS

Measuring Parameters

Dependent on Cross Smart Sensor

Accuracy

±0.1%F.S.

Repeatable

±0.1%

Linearity

±0.05%

Respond time

T90<1s

Display

OLED Screen standard;

Parameter, value, % and Unit

Operating Temperature

-40 to 70°C (-40 to 158°F)

Power Supply

24VDC (18 to 36VDC),

or 100 to 240VAC, 50Hz/60Hz

Optional ATM Compensation

Atmosphere compensation for Dissolved Oxygen in special areas and Absolute pressure measurements

Output

Analog output: 4~20mA

Pulse: flow measurement only

Relay: 2 SPDT, 5A@250VAC / 5A@30VDC

Digital Interface

RS485 Modbus RTU

Bluetooth 5.2

Optional Hart, Profibus, FF etc. by convertors

Weight

5 lbs. (2.27kg)

Explosion Proof Approval

Ex d IIC T6 Gb

Housing

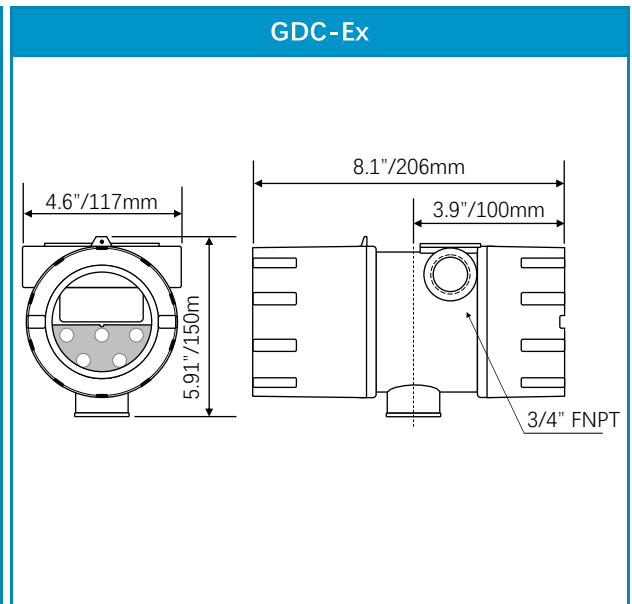
Die casting Aluminum, painted.

Ingress Protection Rate IP66

ORDER CODE

GDC General Display & Controller				
Model and Analogue Output Channels				
-Ex Explosion-proof standard version				
Digital Interface				
- Standard, RS485 Modbus RTU; Bluetooth.				
-BP Profibus DP/PA -HT HART -BF FF				
Power Supply				
-AC 100 to 240VAC, 50Hz/60Hz				
-DC 24VDC (18 to 36VDC)				
Special Application				
- None				
-ATM Atmosphere compensation				
-AL Acousto-optic Alarm				
-AVF Area/Velocity Flow Measurement				
-OCF Open Channel Flow Measurement				
GDC	-Ex	-	- DC	-

DIMENSION



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