

## GDC-STANDARD 01/02 SINGLE OR DUAL CHANNELS

### THE ADVANTAGE

**Universal Terminals:** Use with Cross Smart Sensors (CSS™) for measurements of water analysis, gas analysis and process control.

**Advanced Display:** Colorful and Bright LCD screen.

**Single or Dual Channels:** for up to two parameters, 4 to 20 mA analog outputs.

**4 to 20 mA output and Alarm Relays:** Flexible configurations for most applications.

**Bluetooth 5.2** for easy set up and calibration by smart phone and pad. .



GENERAL DISPLAY & CONTROLLER

The GDC-Standard is designed for up to two sensors. The flexible and highly functional plug-and-play operation facilitates installation in most any application.

Digital communication with all Delta-Phase digital sensors and probes is simple and reliable.



### DESCRIPTION

GDC (General Displayer & Controller) series terminals are designed for continuous measurements with Cross Smart Sensors in general purpose industrial or municipal environments. GDC terminals can be extended to network using intelligent sensors with RS485 Modbus RTU protocol output. 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 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 is an alternative version of Two-wire GDC transmitter which is loop-powered with 4-20 mA/optional Hart protocol. The GDC-LP transmitters are designed to work with some electro-chemical analog sensors, like PH7A, RX7A, MV7A, CS7A etc. Please see details of GDC-LP transmitter in a specialized datasheet.

	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

## SPECIFICATIONS

### Measuring Parameters

Dependent on Cross Smart Sensor

### Accuracy

$\pm 0.1\%$ F.S.

### Repeatable

$\pm 0.1\%$

### Linearity

$\pm 0.05\%$

### Response time

T90 < 1s

### Display

Colorful LCD Screen

Optional OLED screen, consult factory for details.

Parameters, value, % and Unit

### Operating Temperature

-20 to 60°C (-4 to 140°F)

### Power Supply

Line powered 24VDC (18 to 36VDC),

or 100 to 240VAC, 50Hz/60Hz

### Output

Analog output: 4 to 20mA

Pulse: flow measurement only

Relay: up to 4 SPDT (According to Model selection)

5A@250VAC / 5A@30VDC

### Digital Interface

RS485 Modbus RTU

Bluetooth 5.2

Optional: HART, FF, Profibus, BACnet etc.

### Optional ATM Compensation

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

### Weight

1.76lbs. (0.8kg)

### Housing

Polycarbonate

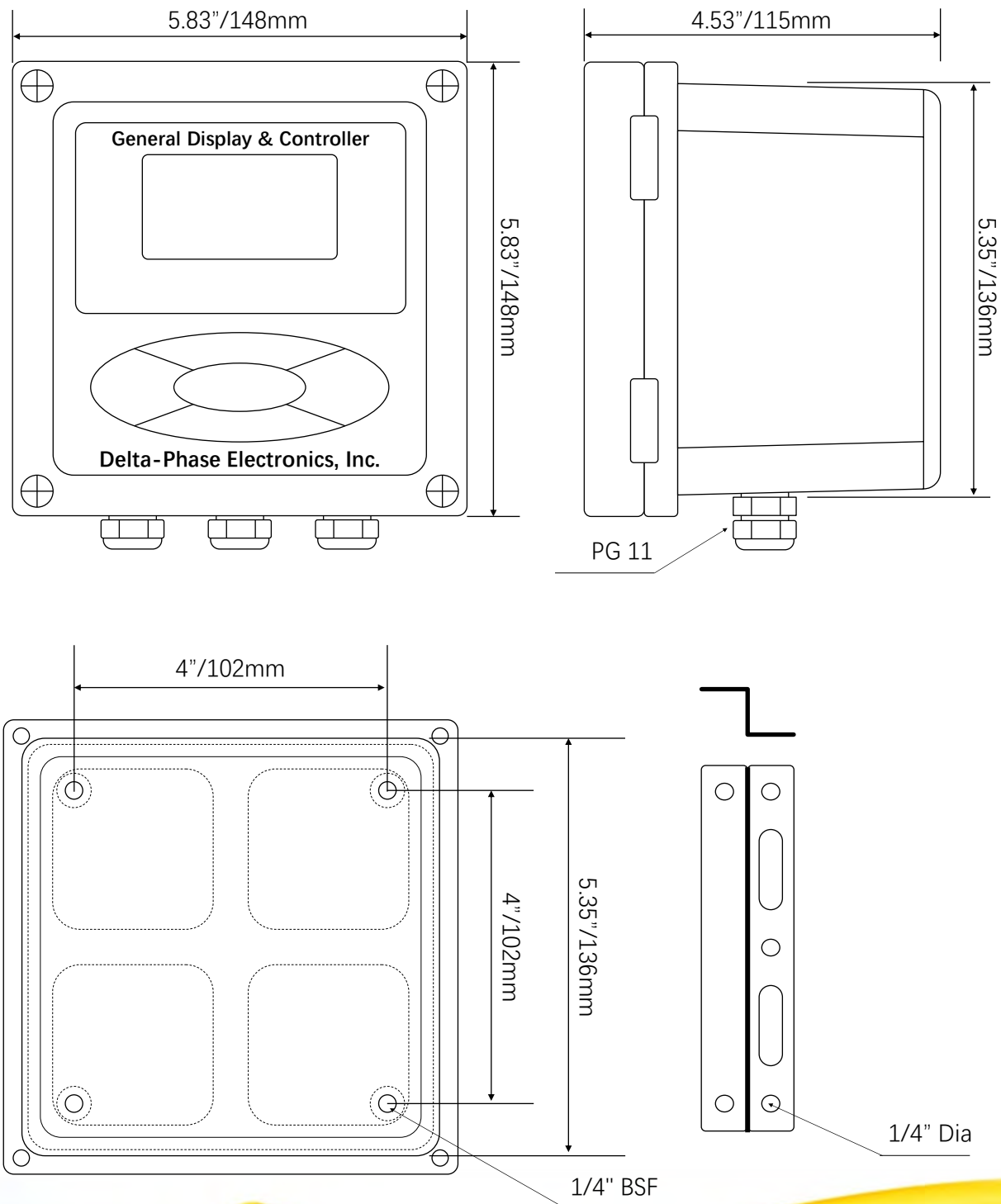
Ingress Protecting rate IP66

*Specifications subject to change without notice*



## DIMENSIONS

The GDC Transmitter unit can be installed on a surface, panel, or pipe (horizontally or vertically).



## ORDER CODE

### GDC General Display & Controller

#### Model and Analogue Output Channels

- 01 Single Channel
- 02 Dual Channels

#### Digital Interface

- Standard, RS485 Modbus RTU; Bluetooth.
- BP Profibus DP/PA
- BF FF
- HT HART

#### Power Supply

- AC 100 to 240VAC, 50Hz/60Hz
- DC 24VDC (18 to 36VDC)

#### Special Application

- None
- AL Acousto-optic Alarm
- ATM Atmosphere Compensation
- AVF Area/Velocity Flow Measurement
- OCF Open Channel Flow Measurement

GDC -01 - -DC -

## CSS™ (Cross Smart Sensor)

### Optical Sensor

DO  
BOD  
COD  
Color  
Nitrite  
Nitrate  
Turgidity  
TOC/DOC  
Oil in Water  
Suspended Solid

### Electro-Chemical Sensor (ISE)

pH  
ORP  
Nitrate  
Ammonia  
Conductivity  
Residual Chlorine  
Special ions (Ca<sup>2+</sup>, F<sup>-</sup>, Cl<sup>-</sup>...)

### Process Control Sensor

Pressure  
Mass Flow  
Radar Flow  
Radar Level  
Magnetic Flow  
Ultrasonic Flow  
Ultrasonic Level  
Temp. & Humidity  
Toxic and Combustible Gas

To complete your digital measurement system,  
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