Delta Phase
WATER GAS MONITORING

GDC

GENERAL DISPLAY & CONTROLLER

Digital technology for optimized measures

THE ADVANTAGE

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

Advanced Display: -40°C tolerance brighter OLED screen for GDC-01/02, GDC-H and GDC-Ex. Colorful touch screen LCD for GDC-04/06/08

Single or Multiple Channels: for parameters and 4-20 mA analogue outputs up to 8 Channels.

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

GDC-Ex Explosion Proof Terminal: Using a magnetic screwdriver through the display window to set up the GDC -Ex, eliminates the need to open the enclosure cover.

USB Port for easy data logging and software update.

GDC-04/06/08 terminals based on Linux system to run cross-platform software Delta-Phase View™

Optional Ethernet (TCP/IP) port and Wi-Fi for GDC-04/06/08, can be connected wirelessly by Pad, smart phones and computers for remote display and operations.

DESCRIPTION

GDC (General Displayer & Controller) series terminal are designed for continuous measurements with Cross Smart Sensors in a general purpose industrial or municipal environment. GDC terminals have the ability to extend network by intelligent sensors with RS485 output, Modbus RTU protocol. GDC terminals supply power to sensors in the meantime of getting signals. A plug and play function can be expected 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 analogue or digital outputs for customized configuration.

GDC-01/02

GDC-04/06/08

GDC-Ex

GDC-H

CE	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
Depended on Cross Smart Sensor

Accuracy
±0.1%F.S.

Repeatable
±0.1%

Linearity
±0.05%

Respond time
T90<1s

Compensation
Atmosphere compensation for Dissolved Oxygen and pressure measurements

Display
GDC-01/02/H/Ex: OLED Screen
GDC-04/06/08: LCD Touch Screen
Parameter, value, % and Unit

Operating Temperature
GDC-01/02/H/Ex: -40 to 158°F (-40 to 70°C)
GDC-04/06/08: -4 to 140°F (-20 to 60°C)

Power Supply
24VDC (18 to 36VDC), 100 to 240VAC, 50Hz/60Hz
Rechargeable Battery (GDC-H only)

Input
Analog input   4~20mA

Output
Analog output: 4~20mA, up to 8 Channels depended on GDC model
Pulse: flow measurement only
Relay: up to 8 SPDT (According to Model selection)
5A@250VAC / 5A@30VDC
GDC-H 0.5A@30VDC

Digital Interface
RS485 Modbus RTU
USB2.0
Ethernet (TCP/IP) port and wifi (TCP/IP) for GDC-04/06/08 only

Weight
GDC-01/02 1.76lb. (0.8kg)
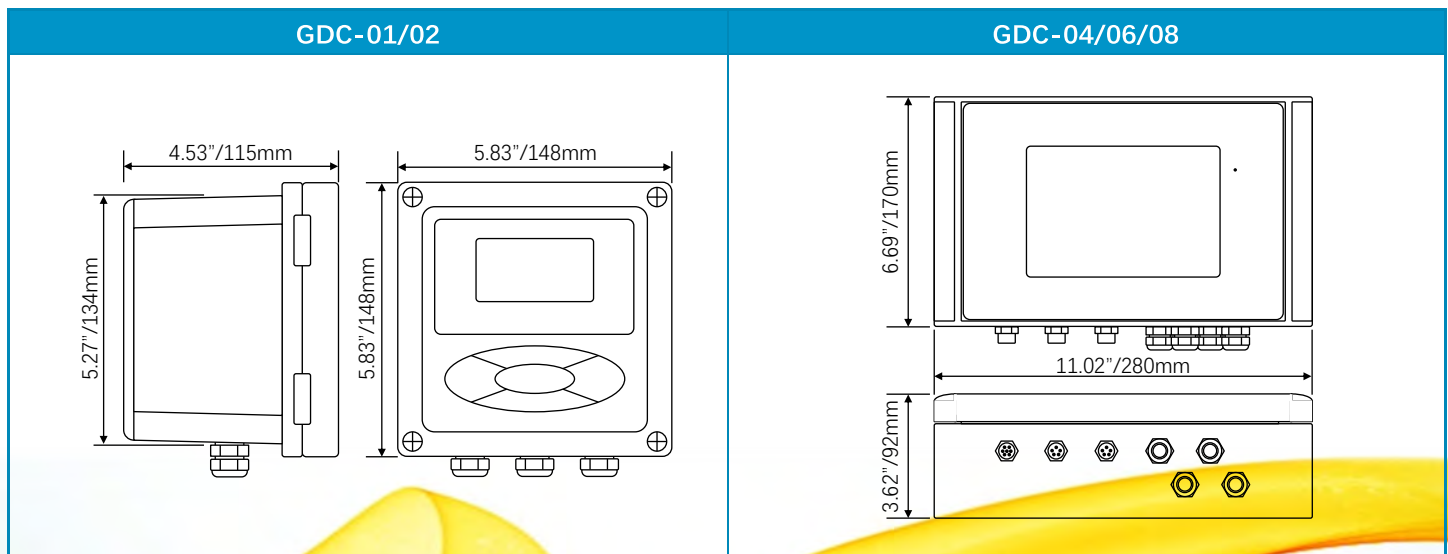GDC-04/06/08   3.31lb. (1.5kg)

Explosion Proof
GDC-Ex: Ex d IIC T6

Ingress Protection Rate
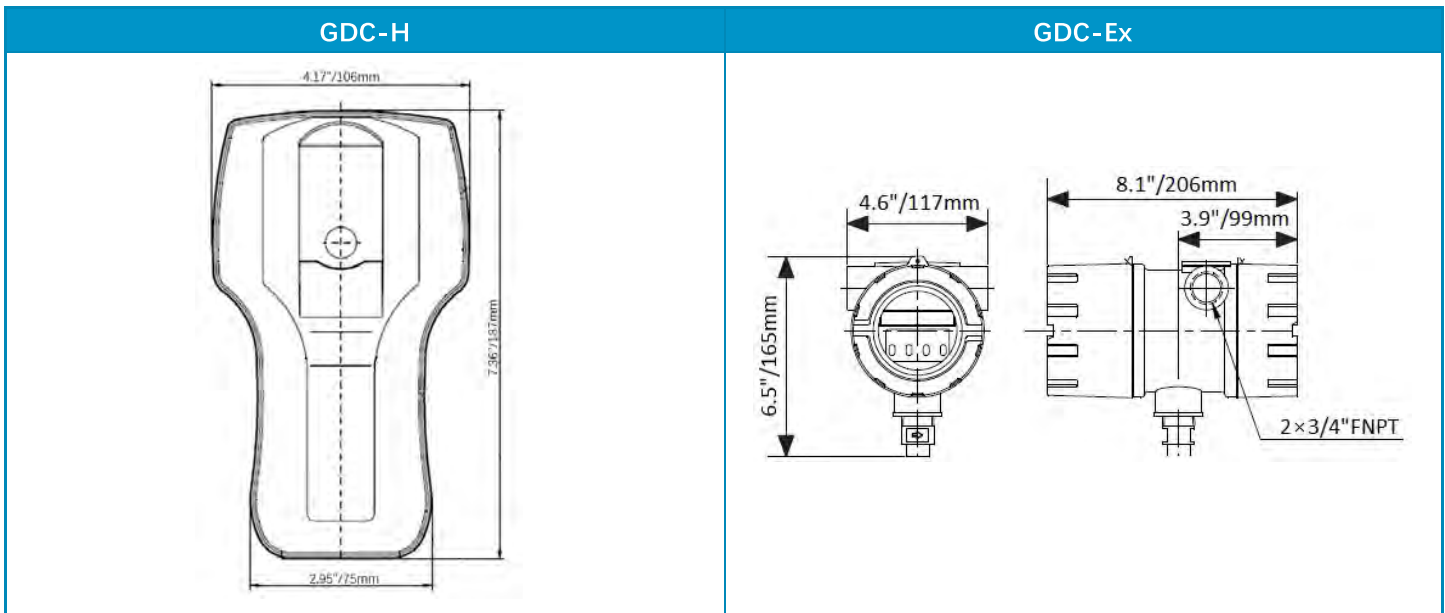IP65 for GDC-01/02, GDC-04/06/08
IP66 for GDC-Ex
IP54 for GDC-H

DIMENSION

GDC-01/02	GDC-04/06/08

GENERAL DISPLAY & CONTROLLER

GDC-H	GDC-Ex

ORDER CODE

GDC General Display & Controller				
Model and Analogue Output Channels				
-01 Single Channel	**-02** Dual Channels			
-04 Four Channels	**-06** Six Channels	**-08** Eight Channels		
-H Handheld	**-Ex** Explosion-proof			

	Relay
	- Two SPDT Relays (Standard for GDC-01/02)
	-R4 Four SPDT Relays (Standard for GDC-04/06/08 or Optional for GDC-01/02)
	-R6 Six SPDT Relays (for GDC-04/06/08 only)
	-R8 Eight SPDT (for GDC-04/06/08 only)

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

			Special Application
			- None
			-ATM Atmosphere compensation
			-AL Acousto-optic Alarm
			-WHL Water Head Lost
			-OCF Open Channel Flow Measurement
			-AVF Area/Velocity Flow Measurement

GDC	-04	-	-AC	-