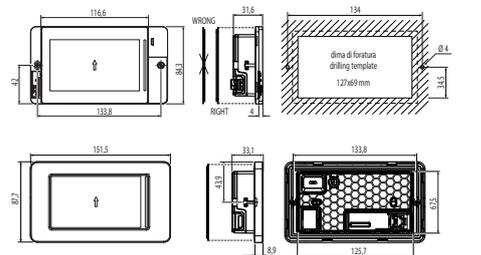


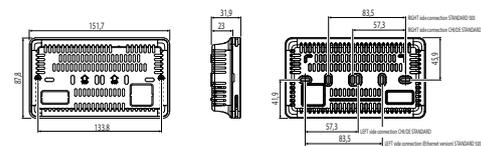


尺寸 (mm) / Dimensions (mm)



墙面安装配件 (如图3d) - 产品代码: PGTA005M40

Accessory for wall surface installation (ref. Figure 3d) - P/N: PGTA005M40



嵌入式安装配件 (如图3c) - 产品代码: PGTA00RM40

Accessory for flush-mounted wall installation (ref. Figure 3c) - P/N: PGTA00RM40

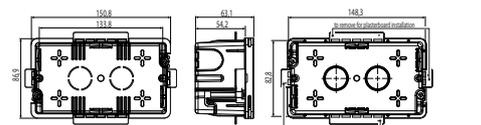


Fig. 1

组装和安装 (mm) / Assembly and installation (mm)

正面 / Frontal

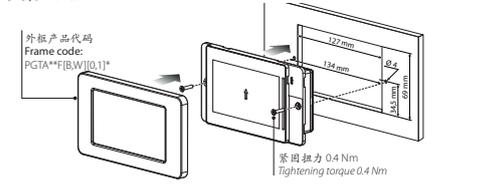


Fig. 3a

背面 / Back

重要提示: 请将扁平线缆与金属面板分开

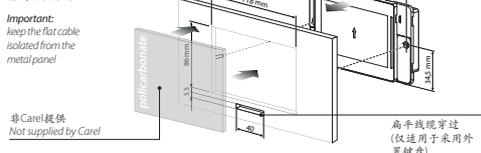


Fig. 3b

墙面安装 / Wall mounting

备注: 请勿将电源线穿过嵌入式安装盒

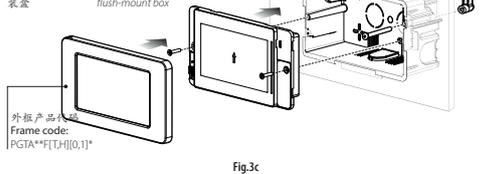


Fig. 3c

墙面 / Wall surface

备注: 仅适用于型号 PG*****[B,E,W,H]*** with models PG*****[B,E,W,H]***

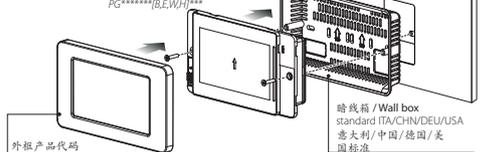


Fig. 3d

产品介绍

pGDx 4.3 寸图形终端是触摸屏产品系列中的一部分, 专为简化与 pCO sistema 系列控制器的对接而设计...

产品代码

Table with columns: 代码, RS485 端口数量, ETH 端口数量, Wi-Fi 连接, RJ12 端口数量, 电源口

包装说明

pGDx 终端, 电源和 RS485 连接头 (仅适用带此接头的型号); 紧固螺丝; 技术文档, Wi-Fi 天线...

安装注意事项

- 为确保安装正确, 请联络有资质的安装工。请勿将终端安装在具有下列特点的环境中: 相对湿度高于技术规格中规定的值; 具有强烈震动或冲击; 暴露于侵蚀和污染的环境中...

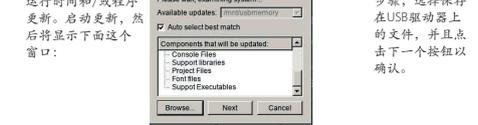
通知栏上的颜色含义

上电时, 通知栏短时显示一个蓝色信号, 表示 boot 阶段启动。随后的信号将由 cTouch 开发的应用程序进行管理。

HMI 运行时间和 / 或程序更新

- 1. 根据用 cTouch 生成 ("Update package") 更新包时选择的选项, 将包含运行时间或程序或两个都有的更新包 (ZIP file) 复制到一个 USB 驱动器...

系统设定



系统设定

触动并按住 pGDx 终端界面持续几秒钟, 直到显示快捷菜单 (如下图), 选择 "显示系统设定" ("Show system settings")...

下表为与不同菜单项目有关的功能清单:

Table with columns: 语言, 系统, 日志, 日期 & 时间, 网络, 服务, 管理, 显示, 重启, 退出

Introduction

The pGDx 4.3 inch graphic terminal is part of the family of touchscreen terminals designed to simplify user interface with the pCO sistema family controllers.

Part numbers

Table with columns: Codice, No. RS485 ports, No. ETH ports, Wi-Fi connectivity, No. RJ12 ports, Power supply port

Packaging contents

pGDx; power supply and RS485 connectors (only on models where featured); fastening screws; technical leaflet, Wi-Fi antenna (only for models where fitted)...

Installation warnings

- For correct installation contact a qualified installer. Do not install the terminals in environments with the following characteristics: relative humidity greater than the value specified in the technical specifications; exposure to aggressive and polluting atmospheres...

Meaning of the colours on the notification bar

At power-on, the notification bar briefly shows a blue signal to indicate the start of the boot phase. The subsequent signals are then managed by the application program developed using cTouch.

HMI Runtime and/or application update

- 1. Copy the update package (ZIP file) containing the runtime or application, or both, depending on the options selected when generating the "Update package" using cTouch...

System settings

Touch and hold the pGDx terminal screen for a few seconds until the shortcut menu is displayed (see the figure below). Select "Show system settings"; the main configuration program screen will be displayed...

Below is a list of the functions relating to the different menu items:

Table with columns: Language, System, Logs, Date & Time, Network, Services, Management, Display, Restart, Authentication, EXIT

网络连接 / Network connection:

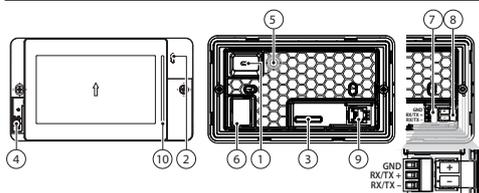


Fig. 4

Description 描述	Mounting/安装		Connectivity/通讯			
	PC04***[F]*** Front Panel Mounting 前面板安装	PC04***[D]*** Rear Panel Mounting 后面板安装	PG04***[A]***	PG04***[B]***	PG04***[C]***	PG04***[E]***
1 Micro USB rear/背面	●	●				
2 Micro USB front/正面	●	●				
3 external keypad connector/外置小键盘连接头		●				
4 temperature and humidity probe (6)/温度和湿度传感器(6)			(option) 可选			
5 Wi-Fi antenna SMA connector (RP-SMA)/Wi-Fi 天线SMA连接头(RP-SMA)						
6 Ethernet port/以太网接口					●	●
7 RS485 port/RS485 端口					●	●
8 power supply port/供电口					●	●
9 RJ12 connector (power/RS485)/RJ12 接口			●			
10 notification bar/通知栏					●	●

如果RS485端口被用作pLAN (Modbus通过pLAN协议)或显示端口: 请勿在RS485网络中的第一个和最后一个设备上连接120欧姆电阻, 因为RS485端口是HW从控类型。可连接到网络中的最大设备数量为32个, 最长距离为500m。
(6) 定期检查传感器通风孔是否清洁的。
(7) 除型号PG04***FA***以外

连接到PC0/c.pCO控制器
Connection to pCO/c.pCO

带RJ12连接头的型号 / Models with RJ12 connector

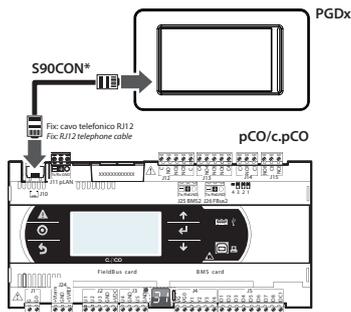


Fig. 5

带RS485/Wi-Fi螺接头的型号 / Models with RS485/Wi-Fi screw terminal

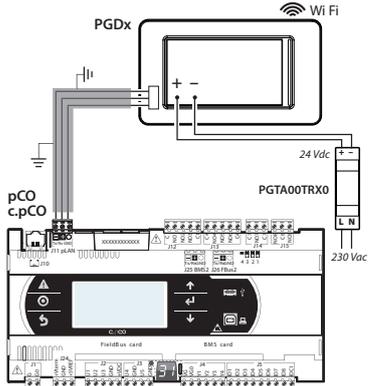


Fig. 6

带Ethernet/Wi-Fi连接头的型号 / Models with Ethernet/Wi-Fi connector

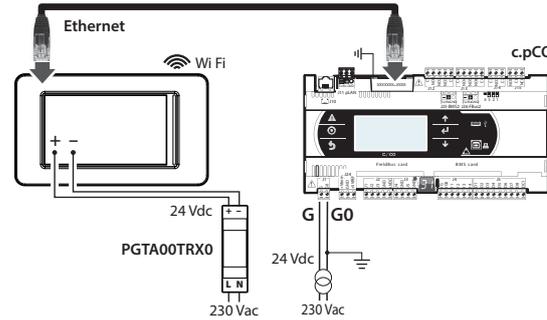


Fig. 7

Technical specifications

Display	
Type	LCD TFT
Resolution	480x272 Wide
Active display area	4.3" diagonal
Colours	65K
Backlighting	LCD - Lifetime 20 khrs @ 25 °C
Brightness control	Yes - auto-off by default after 15 min
Visual angle (CR ≥ 10)	Up/Down (40/50 deg.) - Left/Right (50/50 deg.)
Contrast (typical)	350 (0=0)
Brightness (typical)	200 cd/m²
User interface	
Touchscreen	Resistive
System signal LEDs	8-colour notification bar
Interfaces	
Ethernet port	Auto-MDIX 10/100 Mbit - RJ45 female STP CAT 5 cable Lmax = 100 m
Wi-Fi	IEEE 802.11 b/g/n - STATION/ACCESS Point mode Built-in/external antenna based on model Max Transmit Power = 17dBm External antenna connector RP-SMA female (for models PG04***D[H]R[W]***)
USB port (1)	Host interface 2.0 - micro USB - 150 mA max (do not use to charge devices) - Lmax = 1 m
Serial port with RJ12 connector	RS485 max 115.2 Kb/s 6-wire telephone cable Lmax = 2m
Serial port with screw terminal (2)	RS485 max 115.2 Kb/s Removable screw connector 3.81mm pitch Shielded twisted pair cable AWG 20-22 for ± Lmax = 500m - tightening torque 0.25Nm (2.2lbf x in)
Temperature / humidity probe	0 to 50 °C / 20 to 80% rH 0 to 50 °C ± 1 °C (static air) 20 to 80% ± 5% (static air)
(1) only for service. The USB port can be damaged by ESD (Electro-Static Discharges). It's recommended to adopt appropriate precautions in order to avoid failures. (2) opto-isolated for PG04***C[R]***	
Functions	
Vector graphics	Yes, includes SVG 1.0 support
Dynamic objects	Yes Visibility, position, rotation
TrueType fonts	Yes
Multi-protocol	Yes
Logs and trends	Yes, Limited to Flash memory capacity
Multilanguage	Yes, run-time language setting and limited only by available memory
Recipes	Yes, Limited to Flash memory capacity
Alarms	Yes
Event list	Yes
Passwords	Yes
Real Time Clock (3)	Yes, with backup battery
Screen saver	Yes
Buzzer (3)	"Beep" when pressing the touchscreen (settable)
(3) only on models where featured	
Electrical	
PG04***A*** power supply	Power supply from pCO via RJ12 telephone connector (check that the power supplied by the controller is compatible with PG0x power consumption)
PG04***[B,C,E,H,R,W]*** power supply	24Vdc supplied by PGTA00TRX0 accessory Lmax = 50 m(4-5-6)- cable cross section AWG 12-20 tightening torque 0.8 Nm (7 lbf x in)
Max Power Absorption	7W, exception PGR04***A*** = 3W
Fuse	Automatic
Weight	Approx. 250 g
Battery	Non-rechargeable lithium model BR1225
Software class and structure	A
Purpose of control	Operation control
Controller construction	independently mounted control (PG04***[F]T)*** incorporated control (PG04***[R]D[W]***)
Type of automatic action	type 1 action
Heat and fire resistance	Cat. D
Overvoltage category	Cat. III
Insulation class	Class III
(4) For models PGR04***[F]T)***. To connect -Vdc to earth follow the instructions on the connection diagrams (5) For models - for flush mounting the PGTA00TRX0 accessory must be installed in a dedicated box (6) Power supply range: 24Vdc ± 10%	
Environmental conditions	
Operating temperature	PG04***[I]D)***: -20/60 °C PG04***[F]R[W]***: 0-50 °C PG04***: -30-70 °C
Storage temperature	85% @ 40 °C 无凝露
Maximum operating and storage relative humidity	PG04***: IP65, NEMA Type 1 (前面) if coupled with PGTA**[R]W)11** (前面) PG04***[D,F]R,W)***: IP20, NEMA Type 1 (前面)
Ingress protection	3
Pollution degree	3

技术规范

显示屏	
类型	LCD TFT
分辨率	480x272
有效显示区域	4.3"
色彩	65K
背光	LCD - 使用寿命 20 khrs @ 25 °C
亮度控制	是 - 自动关闭, 默认15分钟后
视角 (CR ≥ 10)	上/下 (40/50度) - 左/右 (50/50度)
对比度(典型)	350 (0=0)
亮度(典型)	200 cd/m²
用户界面	
触摸屏	阻性
系统信号LED灯	8色通知栏
接口	
以太网口	自动极性识别 10/100 Mbit - RJ45 内插口 STP CAT 5 线缆最长 = 100 m
Wi-Fi	IEEE 802.11 b/g/n - 站/接入点模式 根据型号可分为内置/外置天线 最大传输功率 = 17dBm 外置天线远程安装最长距离 = 2 m 外置天线连接头 RP-SMA 内插口 (适用于型号 PG04***D[H]R[W]***) 主机接口 2.0 - 微型 USB - 150 mA 最大 (请勿使用充电设备) - 最长距离 = 1m
USB端口 (1)	主机接口 2.0 - 微型 USB - 150 mA 最大 (请勿使用充电设备) - 最长距离 = 1m
串行端口, RJ12接头	RS485, 最大 115.2 Kb/s 6芯电话线, 最长 = 2m
串行端口, 螺接头(2)	RS485, 最大 115.2 Kb/s 可拆卸螺接头 3.81mm 插脚 屏蔽双绞线 AWG 20-22 ± 最长 = 500m - 紧固扭力 0.25Nm (2.2lbf x in)
温度/湿度传感器	0 ~ 50 °C / 20 ~ 80% rH 0 ~ 50 °C ± 1 °C (静态空气) 20 ~ 80% ± 5% (静态空气)
(1) 仅用于服务操作。USB 端口可能会受 ESD (静电释放), 建议采用恰当的预防措施, 以防止故障。 (2) 光电隔离, 适用于 PG04***[C]R)***	
功能	
向量图	是, 包括支持 SVG 1.0
动态对象	是, 清晰度, 位置, 旋转
TrueType 字体	是
多协议	是
多语言	是, 受限于闪存容量
趋势趋势	是, 运行时间语言设定, 并且仅受限于可用的存储器
配方	是, 受限于闪存容量
报警	是
事件列表	是
密码	是
实时钟(3)	是, 带有备用电池
屏幕保护	是
蜂鸣器(3)	"Beep", 当按压触摸屏时(可设定)
(3) 仅适用于有此配置型号	
电气规格	
PG04***A*** 电源	电源来自 pCO 控制器, 通过 RJ12 电话接头 (检查控制器提供的电源是否与 PG0x 的功耗兼容)
PG04***[B,C,E,H,R,W]*** 电源	24Vdc, 由 PGTA00TRX0 提供 最长 = 50 m(4-5-6)- 线缆截面 AWG 12-20 紧固扭力 0.8 Nm (7 lbf x in)
最大功率	7W, 例外 PGR04***A*** = 3W 除外
保险丝	自动的
重量	大约 250 g
电池	非充电锂电池, 型号 BR1225
软件等级和结构	A
运行控制	独立安装控制 (PG04***[F]T)*** 集成控制 (PG04***[R]D[W]***)
控制结构	独立安装控制 (PG04***[F]T)*** 集成控制 (PG04***[R]D[W]***)
自动动作类型	类型 1 动作
耐热和防火类别	D 类
过电压类别	III 类
绝缘类别	III 类
(4) 对于型号 PGR04***[F]T)***, 根据接线图上的指导说明连接 Vdc 到接地点 (5) 对于嵌入式安装的型号, PGTA00TRX0 必须安装到专用的接线盒 (6) 电源范围: 24Vdc ± 10%	
环境条件	
运行温度	PG04***[I]D)***: -20-60 °C PG04***[F]R[W]***: 0-50 °C PG04***: -30-70 °C
储存温度	85% @ 40 °C 无凝露
最大运行和储存相对湿度	PG04***: IP65, NEMA 类型 1 (前面) 如果与 PGTA**[R]W)11** 组合 (前面) PG04***[D,F]R,W)***: IP20, NEMA 类型 1 (前面)
污染等级	3

废弃物处置规定 / Disposal regulations

• 请勿将此设备作为城市固废处理; 请将其送至正确的处理中心。
• 此装置中含有电池, 在进行处置前, 请先断开电源, 再将后盖拆下。
• 使用或处置不当可能对人体健康和环境都有不良影响。
• 必须按照当地法规规定的公共或个人废弃物回收系统对此装置废弃物进行处置。
• 如果出现电子和电气废弃物违法处置, 则将依据当地现行法律对废弃物处置的规定进行处罚。

Do not dispose of the product as solid municipal waste; take it to the proper collection centres.
The product contains a battery, power down the device, remove the rear cover and must be removed, before proceeding with disposal.
Improper use or disposal could have a negative effect on human health and the environment.
Public or private waste collection systems defined by local legislation must be used for its disposal.
In the event of illegal disposal of waste electrical and electronic equipment, penalties have been established by the current local laws regarding disposal.



请将电源线 and 信号线放在不同导线管内。



重要说明
本装置(或产品)必须依照当地关于废弃物处理的有效法规单独进行处理。

CAREL 产品是一种先进的装置, 其操作在产品随附的技术文件中详细说明了, 也可在购买之前从 www.carel.com 网站了解。对于达到与最终安装或设备相关的特定预期结果相关的产品配置上的一切责任和风险, 均由客户(最终设备的制造商、开发商或安装供应商)承担。如果在所述阶段未完成用户手册中要求/指示的内容, 就可能造成最终产品故障; 在这种情况下, CAREL 不承担任何责任。客户必须通过产品相关的文档所描述的方式使用产品。在 CAREL 一般合约条件下, 对产品在产品方面的责任进行了规定, 详情可从 www.carel.com 网站和/或与客户签订的特定协议进行了了解。

合规性

安全	UL sch. CB	UL60730-1 IEC60730-1
EMC	CE	EN61000-6-1 / EN61000-6-2 EN61000-6-3 / EN61000-6-4 EN5014-1 / EN5014-2
Radio	Red	EN301489-1/EN301489-17 EN300328 Part.15 Subpart B



Always keep the signal cables and power cable in separate conduits.



重要警告
The appliance (or the product) must be disposed of separately in compliance with the local standards in force on waste disposal.

IMPORTANT WARNINGS
The CAREL product is a state-of-the-art product, whose operation is specified in the technical documentation supplied with the product or can be downloaded, even prior to purchase, from the website www.carel.com. The client (builder, developer or installer of the final equipment) assumes every responsibility and risk relating to the phase of configuration of the product in order to reach the expected results in relation to the specific final installation and/or equipment. The lack of such phase of study, which is requested/indicated in the user manual, can cause the final product to malfunction of which CAREL can not be held responsible. The final client must use the product only in the manner described in the documentation related to the product itself. The liability of CAREL in relation to its own products is regulated by CAREL's general contract conditions edited on the website www.carel.com and/or by specific agreements with clients.

Standards

Safety	UL sch. CB	UL60730-1 IEC60730-1
EMC	CE	EN61000-6-1 / EN61000-6-2 EN61000-6-3 / EN61000-6-4 EN5014-1 / EN5014-2
Radio	Red	EN301489-1/EN301489-17 EN300328 Part.15 Subpart B