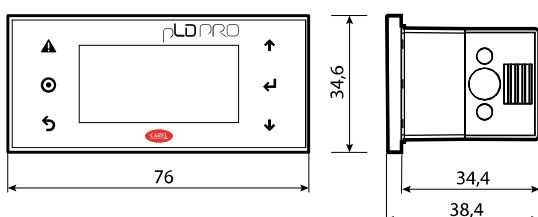# pLDPRO

th-tune

PLD*

pLDPRo is the best solution for all those applications where cost and compact dimensions are the main requirements.

Compact pCO/c.pCO family LCD display, fully compatible with all of the software and hardware applications developed for pGD1, with 132x64 pixel resolution. pLDPRO provides users a complete set of information, in a clear and customisable way, typical of applications created for programmable LCDs, yet not available on 7-segment LED displays.

With its LCD screen, pLDPRO can display icons (defined at an application software development level) and manage double-height international fonts. The screens can be browsed using the six buttons, with audible signals provided by the buzzer.

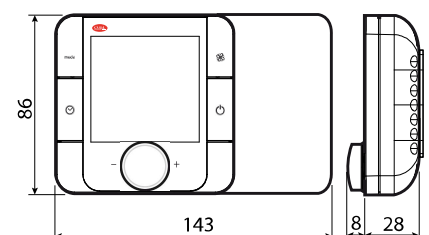Connection to the pCO/c.pCO controller is provided via the RS485 network using the pLAN protocol.

ATC*

th-Tune is the CAREL pCO sistema family room terminal that allows users to set the room temperature and humidity in residential applications. Depending on the model, it can be equipped with a temperature probe or a temperature and humidity probe, and is available with 230 Vac or 24 Vac/Vdc power supply. It is compatible with the main recessed wall boxes on the market (IT, USA, DE, CN). Setting the temperature and humidity is simple and intuitive way using the front knob with rotary encoder. The knob also provides users the possibility to change some settings for the room, such as operating mode and time bands. The control mode and information displayed always depend on the connected controller. Its small footprint and elegant design allow easy adaptability to all types of environments. Connection to the pCO controller is provided via the RS485 network using the Modbus protocol.

Dimensions (mm)

Dimensions (mm)

CAREL

Technical specifications table

Specifications	pGDn	pLDPRO	th-tune
General			
Power supply	power supply from pCO via telephone connector or external 18/30 Vdc source protected by 250 mAT fuse	pLAN port: power supply from pCO via telephone connector (18-30Vdc class II only);	ATA*: 230 Vac (-15/+10 %) 50/60 Hz ATC*: 24 Vac (-15/+10%), 22-35 Vdc
Maximum power consumption	0.9 W	0.5 W	
Operating conditions	-20T60 °C, 90% rH non-condensing	-20T60 °C, 90% rH non-condensing	-10T60°C, 10 to 90% rH non-cond.
Storage conditions	-20T70 °C, 90% rH non-condensing	-20T70 °C, 90% rH non-condensing	-20T70°C, 10 to 90% rH non-cond.
Ingress protection	IP65 with panel mounting IP40 with wall mounting	IP65	IP20 (enclosure)
Certification			
Class of protection against electric shock	To be incorporated in class I or II appliances	To be incorporated in class I or II appliances	to be incorporated in class I or II appliances
PTI of insulating material	PCB: PTI 250; insulation material PTI 175	175	PCB: from 175 to 249; insulation material: PTI 275
Period of electrical stress	long	long	long
Heat and fire resistance category	D	category D and B	D
Surge protection immunity	Category II	category II	category II
Environmental pollution	2	2	2
Assembly	panel and wall (depending on the P/N)	panel	• AT*: panel • AT*: built-in
Connections	telephone connector on the rear of the terminal	telephone connector on the rear of the terminal	fixed connectors
Serial port	pLAN	pLAN	1 RS485

Part number table

Part number	Description
pGDN	
PGNE000F00	pGDN1 132x64, white backlighting, panel mounting
PGNE000W00	pGDNE 132x64, white backlighting, wall mounting
pGDn accessories	
S90CONN000	Telephone connection cable
S90CONN0S0	Connection cable c.pCO mini and k.Air mini
pldPRO	
PLD00GFP00	PLDPRO, 132x64, BUZZER, pLAN CONNECTION
th-tune for wall mounting	
ATC4001AW0	24 Vac, wall mounting
ATC4001CW0	24 Vac, temperature and humidity, wall mounting
ATA4001AW0	230 Vac, wall mounting
ATA4001CW0	230 Vac, temperature and humidity, wall mounting