



Air Conditioning Controls Business Unit

pCO sistema: results and plans



End user terminal family

features



pGD pCO Graphic Display



price



Programmable controls

Targets for 2003 :

- A) pCO^{xs} Mass production on May 2003
- B) pGD Mass production on Oct. 2003
- C) Availability of standard software for pCO¹, pCO², pCO^{xs}



pGD Key-points:

	pCO-I	pGD
		
LCD	Only alphanumeric capability	Graphic 120x32 pixel: double size characters, customised icons, multilanguages.
Back-lit	Optional	Standard
Working temperature	0T50 °C	-20T60 °C
Mounting	Panel	Panel or Wall
IP level	IP65	IP65
International languages	European languagesChinese, Russian, Greek and Scandinavian languages
Price	195,00 €	145,00 € (- 26%)

pGD standard models:

A) PANEL MOUNTING

"F" TYPE :

PGD0000F00



B) WALL MOUNTING

"W" TYPE : **PGD0000W00**



C) pGD IN pCOI ENCLOSURE

"I" TYPE : **PGD0000I00**



Thanks to this model all software developed up to now are compatible without any

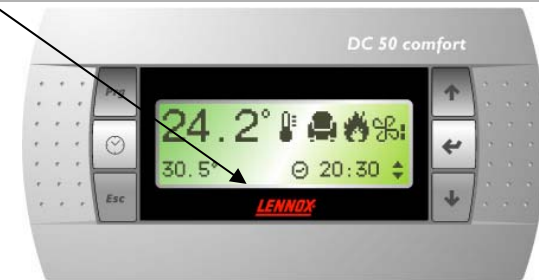
pGD fast customisation:

I level of customisation

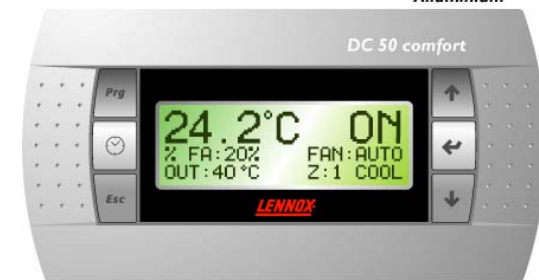
Logo or coloured frame

Standard pGD module with customised logo printed on the standard frame

- Design Development Cost : € 1000
- Time delivery for samples : 4 weeks from design approval



Alluminium



Alluminium



Blue France plastic

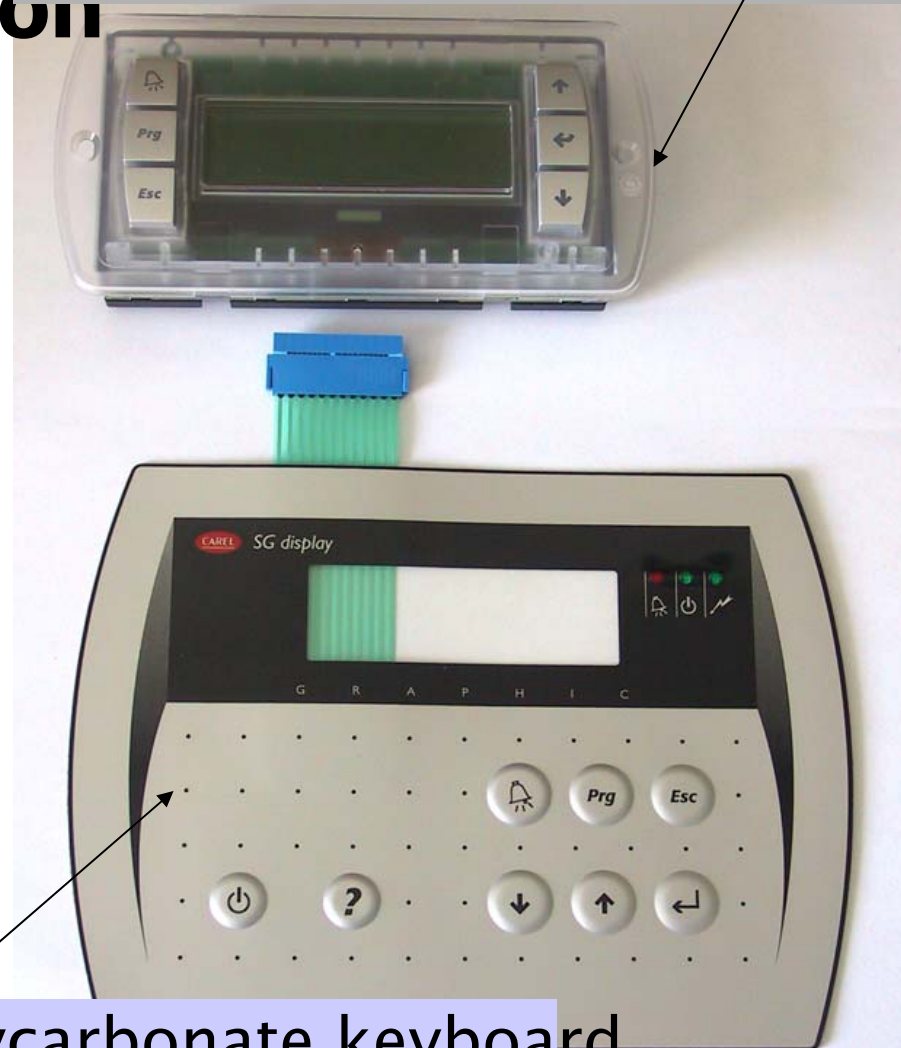
pGD fast customisation:

Standard pGD module
without frame and keys

II level of customisation

External polycarbonate keyboard:

- Maximum : 8 keys
3 LEDs
- Design Development Cost : €
1500
- Unit price for keyboard : 7..10 €
- Time delivery for samples: 4
weeks
approval



External polycarbonate keyboard

pGD customisation:

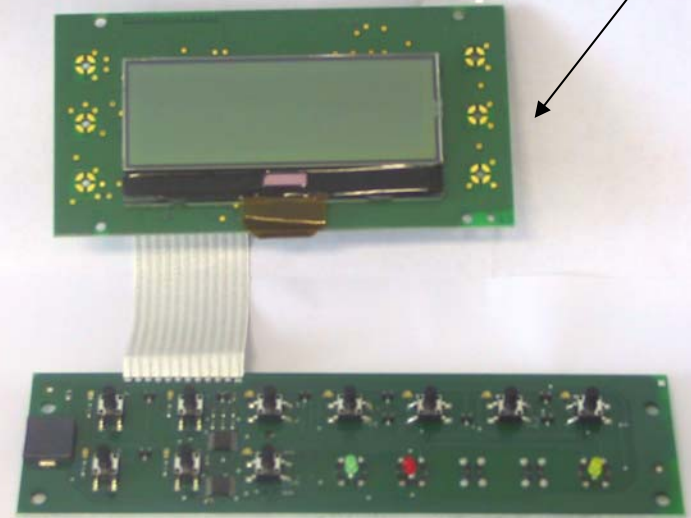
III level of customisation

Customised external mechanical keyboard

**Maximum : 15 keys
24 LEDs**

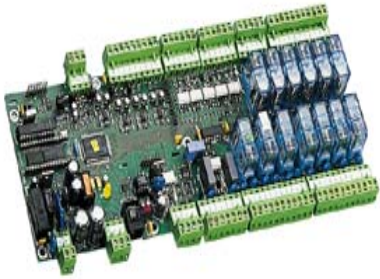
- The customer will support the developing cost
- Time delivery : 4 months from design approval

Standard pGD module without enclosure



External mechanical keyboard

How pGD affects the offer:



pCOB and pCOI

606,00



pCOB and pCOI
plus 2 pressure
transducer 4..20
mA



772,00



pCO1 medium and
pGD

509,00 € **-16 %**

pCO1 medium and
pGD plus 2 pressure
transducer 0..5 Vdc



637,00 € **- 24 %**

pCO_{xs} Key-point:

	pCO1-pCO2	pCO _{xs}
Power supply	24Vac-Vdc	24 Vac-Vdc 48 Vdc (TLC applications)
Serial bus	1 serial bus built-in 2 optionals	2 serial bus built-in 1 optionals
Min dimension	13 DIN modules	8 DIN module
Programming key	Available	Not available
Black-box	Available	Not available
Price	pCO1 small: 260,00 €, \$	210,00 €, \$ (-20%)



pCOxs customers up to now

- **RC** : Use the Built-in version in Telecom applications, they appreciate the 48Vdc power supply capability.
- **Dominick hunter Hiross** : use it in dryer units
- **Carel Deutschland** is promoting it with success with some AHU manufacturers.
- **Carel China** finds it very interesting for close control application, one customer is starting in October.



Parametric & programmable

price

400 € to €

100 € to 200
€



pCO^{xs} & pGD, 355 €



pCO^{xs} Built-in LCD, 270 €



pCO^{xs} & PST user interface, 235 €
Available on Dec.03



performance

Standard software for precision air conditioner and roof-top

	pCO ^B	pCO ^{xs}	pCO ^C	pCO ¹	pCO ²	PGD	EEV Alco algorithm m	EEV Carel algorithm
Shelter	No	Yes	No	Yes	yes	End of Nov.03	No	yes
Roof-top	Yes	End of Oct.03	End of Oct.03	End of Oct.03	End of Oct.03	End of Oct.03	No	No
Close Control	yes	No	No	yes	yes	yes End of Oct.03	No	yes



Available in KSA web site

Standard software chiller

software	pCO ^B	pCO ^{xs}	pCO ^C	pCO ¹	pCO ²	PGD	EEV Alco Driver	EEV Carel Driver
Semihermetic Compressor	Yes	No	No	No	No	No	No	No
Semihermetic Compressor Alco Driver	Yes	NO	YES	YES	YES	NO	Yes	No
Semihermetic Compressor CAREL Driver	Yes	NO	Yes	Yes	Yes	No	No	Yes
Screw Compressors Alco Driver	Yes	No	Yes	Yes	Yes	No	Yes	No
Target :								
Semihermetic & hermetic Compressor	No	End of Dec.03	End of Dec.03	End of Dec.03	End of Dec.03	End of Dec.03	No	End of Dec.03
Screw Compressors	No	No	Yes	Yes	Yes	End of Nov.03	No	Yes

