

# XEV02D

## SLAVE DRIVER FOR DIGITAL™ COMPRESSORS

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### 1. GENERAL WARNING

#### 1.1 PLEASE READ BEFORE USING THIS MANUAL

- This manual is part of the product and should be kept near the instrument for easy and quick reference.
- The instrument shall not be used for purposes different from those described hereunder. It cannot be used as a safety device.
- Check the application limits before proceeding.
- Dixell Srl reserves the right to change the composition of its products, even without notice, ensuring the same and unchanged functionality.

#### 1.2 SAFETY PRECAUTIONS

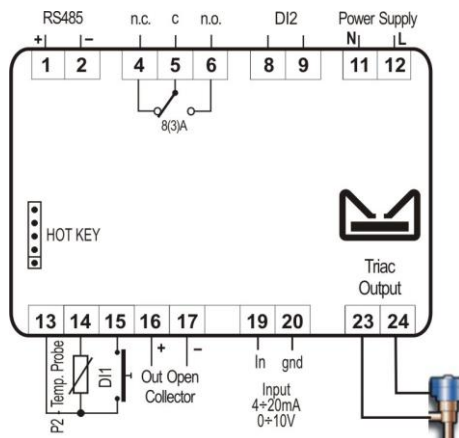
- Check the supply voltage is correct before connecting the instrument.
- Do not expose to water or moisture: use the controller only within the operating limits avoiding sudden temperature changes with high atmospheric humidity to prevent formation of condensation
- **Warning:** disconnect all electrical connections before any kind of maintenance.
- Fit the probe where it is not accessible by the End User. The instrument must not be opened.
- In case of failure or faulty operation send the instrument back to the distributor or to "Dixell S.r.l." (see address) with a detailed description of the fault.
- Consider the maximum current which can be applied to each relay (see Technical Data).
- Ensure that the wires for probes, loads and the power supply are separated and far enough from each other, without crossing or intertwining.
- In case of applications in industrial environments, the use of mains filters (our mod. FT1) in parallel with inductive loads could be useful.

### 2. GENERAL DESCRIPTION

The XEV02D is a slave module designed to be used with a master controller. It acts as a pure transducer controller, receiving a regulatig input from a master controller and transforming it in the relative modulating signal for the digital unloader valve. The XEV02D module is equipped with a temperature probe input (which could be an NTC86K or NTC/PT1000 type). It has a digital output (relay) which is used for alarm or as compressor output, an open collector output which can be used as alarm output and a modulating output (TRIAC type) to drive the unloader digital valve. There are also two configurable digital inputs, the first one is free of voltage and the other ones is isolated in order to simplify connections (high voltage input). The display permits to see the value of temperature or the control input value or the output activation value in percentage. The local keyboard allows programming the instrument without any other devices. To complete instrument equipment, a RS485 serial port permits to connect the XEV02D to any modbus network and an HOT-KEY port to change configuration are present.

### 3. WIRING CONNECTIONS

Please use the following scheme to make the right wirings.

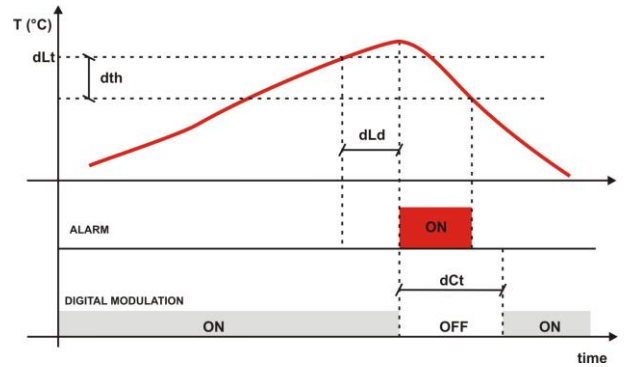


- NOTE:
- The DIGITAL valve must be connected directly to terminals 23 and 24
  - The TRIAC output will work at the same power supply of the module
  - The high voltage digital input (D.I.2, terminals 8-9) works at the same voltage of the Power Supply

### 4. ALARM FUNCTIONS

#### 4.1 HIGH TEMPERATURE ALARM CONTROL (TRIP)

DLT alarm is generated when DLT probe (P2) temperature is:  $T \geq dLt$



Until alarm delay time ( $dLd$ ) is active the total compressor capacity will be limited to  $Cdd$ .

If alarm delay time ( $dLd$ ) is disabled or elapsed:

- General alarm LED and digital output set as alarm ( $oAx=ALr$ ) is activated
- If a digital output is set as compressor output ( $oA1=CPr$ ) this is also deactivated.
- If a digital output is set as demand output ( $oA1=dmd$ ) this is also deactivated.
- Solenoid valve control output deactivates.
- Buzzer activates (depending on the  $bEn$  parameter).

Alarm reset is automatic and happens when both of the following conditions occur:

- Temperature measured by probe will be  $T \leq dLt - dth$  and
- Upon expiry of the stand-by timer for compressor head cooling (par.  $dCt$ ).

In any case the regulation always re-starts after expiring both anti-short cycle timers  $2on$  (minimum time between two consecutive compressor activations) and  $2oF$  (minimum time between one compressor stop and next start-up). Press any key to deactivate the buzzer at any time.

#### 4.2 HIGH TEMPERATURE ALARM CONTROL (LOCKOUT)

DLT lockout alarm occurs after a  $dLn$  number of DLT alarms during the time interval (in hours)  $dLi$ . The logic behind this control is as follows:

- if  $dLn=0$ , this control is deactivated (whatever the value of  $dLi$ );
- if  $dLn \neq 0$  and  $dLi=0$ , block occurs after a number of DLT alarms equal to  $dLn$  is had;
- if  $dLn \neq 0$  and  $dLi \neq 0$ , block occurs after a number of DLT alarms equal to  $dLn$  in time interval in  $dLi$  (expressed in hours).

When the above-described condition occurs:

- General alarm LED and digital output set as alarm ( $oAx=ALr$ ) is activated.
- If a digital output is set as compressor output ( $oA1=CPr$ ) this is also deactivated.
- If a digital output is set as demand output ( $oA1=dmd$ ) this is also deactivated.
- Solenoid valve control output deactivates.
- Buzzer activates (depending on the  $bEn$  parameter).

Alarm reset is manual by means of controller on-off procedure or a special Modbus control.

In any case the regulation always re-starts after expiring both anti-short cycle timers  $2on$  (minimum time between two consecutive compressor activations) and  $2oF$  (minimum time between one compressor stop and next start-up). Press any key to deactivate the buzzer at any time.

#### 4.3 LOW TEMPERATURE ALARM CONTROL (LOCKOUT)

If the temperature probe P2 measures a lower value than the one set in parameter  $ALL$  and if this condition persists for longer than the value set in parameter  $dLL$ :

- General alarm LED and digital output set as alarm ( $oAx=ALr$ ) is activated.
- If a digital output is set as compressor output ( $oA1=CPr$ ) this is also deactivated.
- Solenoid valve control output deactivates.
- Buzzer activates (depending on the  $bEn$  parameter).

Alarm reset is manual by means of controller on-off procedure or by using a special MODBUS command.

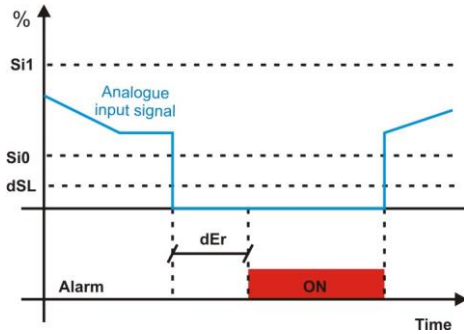
In any case the regulation always re-starts after expiring both anti-short cycle timers  $2on$  (minimum time between two consecutive compressor activations) and  $2oF$  (minimum time between one compressor stop and next start-up). Press any key to deactivate the buzzer at any time.

#### 4.4 MISSING REGULATION SIGNAL CONDITION (TRIP)

A missing regulation signal alarm is generated if the control signal drops below the value set in the parameter  $dSL$  (percentage value, if  $dSL=0$  this control is deactivated) and if this condition persists longer than  $dEr$  seconds.

If so:

- General alarm LED and digital output set as alarm ( $oAx=ALr$ ) is activated.
- If a digital output is set as compressor output ( $oA1=CPr$ ) this is also deactivated.
- Solenoid valve control output deactivates.
- Buzzer activates (depending on the  $bEn$  parameter).



Alarm reset is automatic and happens as soon as control exceeds value set in parameter **dSL**.  
 If **oA1=CPr**, the regulation always re-starts after expiring both anti-short cycle timers **2on** (minimum time between two consecutive compressor activations) and **2oF** (minimum time between one compressor stop and next start-up).  
 Press any key to deactivate the buzzer at any time.

**5. FRONT PANEL**



SET	To display and to modify the set point. In programming mode it selects a parameter or it confirms a value
▲	Keep it pressed for 3 sec to enter the information menu In programming mode it slides the codes of the parameters or it increases their values
▼	Keep it pressed for 3 sec to enter the information menu In programming mode it slides the codes of parameters or it decreases their values.
(!)	To enter the alarms archive menu Keep it pressed for 3 sec to switch OFF and ON the device (if <b>A2F=OFF</b> )

**KEYS COMBINATIONS**

▼	+	▲	To lock or to unlock the keyboard
SET	+	▼	To enter programming mode
SET	+	▲	To exit from various menu
SET	+	(!)	To erase the alarm database (when into alarm menu)

**5.1 XEV01D LEDES**

On display there are some luminous dots. Their meaning is described in the following table:

LED	MODE	Function
L	ON	Low temperature alarm
H	ON	High temperature alarm (DLT alarm)
JL	BLINKING	TRIAC output is working
RS	BLINKING	Serial communication is working
kPA	ON	Units of measurement in dakPA
°C, °F, bar, PSI	ON	Units of measurement in °C, °F, bar or PSI
sec	ON	Units of measurement in seconds
(!)	ON	Alarm active

**6. USER INTERFACE**

**6.1 ACCESS THE VARIABLES MENU**

Keeping the **UP** key pressed for 3 sec when in normal operation mode (variables display) with **U2F=viS**, grants access to variables' quick display menu. Press the **SET** key to switch from displaying the variable's label to its value, and vice-versa. The variables displayed in sequence are: cycle time of digital modulating (**tdG** label) expressed in seconds, regulation input in percentage (**irP** label), regulation input expressed as analogical value (**iAn** label), P2 probe input (**P2** label), valve regulation output in percentage (**PER** label), the used machine configuration (**CtY** parameter), the parameter indicating any change on critical parameters (**Mod**). In addition to these, the firmware release date can be read by using par. **FYr** (year), **FMn** (month) and **FdY** (day).

Scroll the variables inside the menu by pressing the **UP** and **DOWN** keys. Whatever position you are in, press the **SET+UP** keys or waiting for the 60 sec time-out to expire without pressing any key to exit the quick display menu.

**NOTES:**

- Cycle time **tdG** is indicated in seconds with "sec" LED on
- Values display in percentage go from 0.0% to 100.0%
- The temperature is displayed with its units of measurement
- This procedure is possible when **t1F**, **U2F** or **d2F=viS**

**6.2 PROGRAMMING CYCLE TIME tdG**

Keep the **SET** button pressed for 3 sec to gains access to the digital modulating menu time (**tdG** parameter). The display will show the **tdG** label once accessed. Press the **SET** key to switch to parameter's value. Menu exit is for time-out (60 sec without pressing any key) or by pressing the **SET+UP** keys again.

**6.3 HOW TO: ENTERING "PR1" PARAMETER MENU**

To access the "Pr1" level menu:

1. Keep both **SET+DOWN** buttons pressed for 3 sec.
2. The instruments will show the first parameter present in the "Pr1" menu.

**6.4 ACCESS TO "PR2" PARAMETER MENU**

To access to "Pr2" menu:

1. Enter the "Pr1" menu
2. Select "Pr2" parameter and press **SET**.
3. The "PAS" label will be shown, then "0—" with 0 blinking.  
Insert "321" password through **UP** and **DOWN** buttons, then press **SET** to confirm.

**6.5 CHANGE A PARAMETERS VALUE**

To change any parameter value, follow this procedure:

1. Enter the Programming mode by keeping the **SET+DOWN** buttons pressed for 3 sec.
2. Select the required parameter.
3. Press the **SET** button to display the value.
4. Use **UP** or **DOWN** to change the value.
5. Press **SET** to store the new value and move to the following parameter.

To exit: press **SET+UP** or wait for 30 sec without pressing any button.

**NOTE:** the set value is stored even when the procedure is exited by waiting the time-out to expire.

**7. PARAMETER LIST**

**REGULATION**

<b>oA1</b>	Digital output 1 configuration: nu=not used; AL=alarm output; CPr=compressor output; dmd=do not use it.
<b>oA2</b>	Digital output 2 configuration (open collector output): nu=not used; AL=alarm.
<b>oP1</b>	Digital output 1 polarity: oP=open; CL=closed.
<b>oP2</b>	Digital output 2 polarity: oP=open; CL=closed.
<b>tbA</b>	Alarm output deactivation (only if <b>oAx=ALR</b> ): n=not permitted; Y=permitted.
<b>bEn</b>	Buzzer (software) management: on=buzzer active; oFF=buzzer disabled.
<b>P2C</b>	Temperature probe configuration (it depends on the hardware): nu=not used; P1=PT1000; nTC=NTC10k probe; n86=NTC86k probe.
<b>o2</b>	Probe P2 calibration: -12 to 12°C; -21 to 21°F
<b>PA4</b>	Analogue input at 4mA or 0V: (0 to 100%) set the percentage value relative to the minimum analog input.
<b>P20</b>	Analogue input at 20mA or 10V: (0 to 100%) set the percentage value relative to the maximum analog input.
<b>Sut</b>	Start up time: (0.0 to 25.5 sec) valve activation time before starting the regulation.
<b>tdG</b>	Modulation time interval: 6 to 40 sec.
<b>2on</b>	Minimum delay between two DG compressor start-ups: 0 to 255 min
<b>2oF</b>	Delay between DG compressor switch-off and start-up: 0 to 999 sec
<b>odo</b>	Power on regulation delay: (0 to 999 sec) the regulation starts after this delay
<b>dSL</b>	Lower limit for control signal (in percentage): 0 to 100%
<b>Si0</b>	Minimum analogue input value (in percentage): 0 to 100%
<b>Si1</b>	Maximum analogue input value (in percentage): 0 to 100%
<b>Pmi</b>	Minimum load (in percentage): 0 to 100%
<b>PMA</b>	Maximum load (in percentage): 0 to 100%

**DISPLAY**

<b>Lod</b>	Default displayed variable: PER=TRIAC output activation in percentage; Ain=analogue input value in percentage; P2=temperature measured form probe P2.
<b>CF</b>	Units of measurement for temperature: °C=Celsius; °F=Fahrenheit.
<b>rES</b>	Temperature resolution (valid only if CF=°C): in=integer; dE=decimal.

**DIGITAL INPUTS**

<b>i1F</b>	Digital input 1 configuration (voltage free contact): nP=disabled; EAL=external alarm; bAL=block alarm; onF=regulation enabled.
<b>i2F</b>	Digital input 2 configuration (powered input): nP=disabled; EAL=external alarm; bAL=block alarm; onF=regulation enabled.
<b>i1P</b>	Digital input 1 polarity: oP=open; CL=closed.
<b>i2P</b>	Digital input 2 polarity: oP=open; CL=closed.

**ALARMS**

<b>ALL</b>	Low temperature alarm: (-30 to 200°C; -22 to 392°F) this alarm blocks the regulation. A manual reset required.
<b>dLL</b>	Low temperature alarm activation delay: 0 to 999 sec
<b>dLt</b>	Discharge line temperature: (-30 to 200°C; -22 to 392°F) value used for compressor block and alarm output activation.
<b>dth</b>	Differential: (0 to 99.9°C; 0 to 999°F) used to restart the compressor after any DLT alarm.
<b>dLd</b>	DLT alarm activation delay: 0 to 999 sec

dCt	Cooling time for DG compressor after DLT alarm: 0 to 255 min
dLn	Number of DLT alarms in dLi hours before blocking compressor: 0 to 15, 0=function disabled.
dLi	Time interval (in hours) in which to check dLn number of DLT alarms: 0 to 24 hours; 0=function disabled.
CEd	Maximum compressor capacity (in percentage) in case of probe error: 0 to 100%
Cdd	Maximum compressor capacity (in percentage) in case of DLT alarm and for time dLd: 0 to 100%
CEi	Maximum compressor capacity (in percentage) in case of regulation input error: 0 to 100%
dEr	Alarm delay in case of regulation input/probes reading error: 0 to 999 sec

**OTHER**

A2F	ALARM key timed function configuration (push button timed, 3 sec): nu=not used; onF=ON-OFF function.
Adr	Serial address: 1 to 247
bAU	Baudrate for serial communication: 9.6=9600 baud; 19.2=19200 buad.
dP1	Analogue output value (read only)
dP2	Probe P2 value (read only)
d1S	Digital input status display (isolated contact) (read only)
d2S	Digital input status display (not isolated contact) (read only)
rEL	Release Firmware (read only)
Ptb	Parameters table code (read only)
Pr2	Protected parameters menu access

**8. DIGITAL INPUTS**

The device is provided with two digital inputs. One is free of voltage and the other is at high voltage and both can be configured as cooling call. In this way the cooling signal can come from instruments with direct load outputs or via instruments with output without voltage.

**9. ELECTRICAL CONNECTIONS**

The instrument is provided with pluggable screw terminal block to connect cables with a cross section up to 2.5 mm<sup>2</sup>. Heat-resistant cables have to be used. Before connecting cables make sure the power supply complies with the instrument's requirements. Separate the probe cables from the power supply cables, from the outputs and the power connections. Do not exceed the maximum current allowed on each relay, in case of heavier loads use a suitable external relay.

**10. RS485 SERIAL LINE**

All models can be connected to a MODBUS network by using the 2-wire RS485 port. The XWEB related library and the MODBUS protocol can be issued on customer request from DIXELL.

**11. USE THE HOT-KEY**

**11.1 PROGRAM A HOT-KEY FROM THE INSTRUMENT (UPLOAD)**

- 1) Program one controller with the front keypad.
- 2) When the controller is ON, insert the HOT-KEY and push UP button; the "uPL" message appears followed a by flashing "End".
- 3) Push SET button and the "End" will stop flashing.
- 4) Turn OFF the instrument, remove the HOT-KEY and then turn it ON again.

NOTE: the "Err" message is displayed in case of any failed programming operation. In this case, push again UP button if you want to restart the upload again or remove the HOT-KEY to abort the operation.

**11.2 PROGRAM AN INSTRUMENT USING A HOT KEY (DOWNLOAD)**

- 1) Turn OFF the instrument.
- 2) Insert a pre-programmed HOT-KEY into the 5-PIN connector and then turn the Controller ON.
- 3) Automatically the parameter list present into the HOT-KEY will be downloaded into the Controller memory. The "doL" message will blink during this operation, followed a by a flashing "End" label.
- 4) After 10 seconds the instrument will restart working with the new parameters.
- 5) Remove the HOT-KEY.

NOTE: the "Err" message is displayed in case of any failed programming operation. In this case, push again UP button if you want to restart the upload again or remove the HOT-KEY to abort the operation.

**12. ALARM MENU**

Press the ALARM button to access the alarms database menu if. This menu contains a LIFO format log of the last 10 registered alarms. The menu structure is as follows:

- the alarm number in AL0...AL9 format (0 is the oldest alarm, 9 is the last received alarm) is displayed once accessed;
- it is possible to scroll the registered alarms by using the UP and DOWN buttons;
- it is possible to display the following alarm information (in sequence) by using the SET button: the alarm code (3 digit label according to that described) and alarm duration in h.mm (1 minutes resolution, max stored value is 19h59min).

**12.1 ALARMS ARCHIVE ERASING:**

All saved alarms can be deleted by keeping the ALARM+SET key pressed for 5 sec when into ALARM MENU. The display will show the "rSt" label (flashing) for 3 sec and then the default display visualization will be restored (Lod variable).

NOTE:  
- All saved alarms can be also deleted via special MODBUS command.

**13. DISPLAY MESSAGES**

Mess.	Cause	Outputs
A02	Digital input configured as EAL function is active	Unchanged
A03	Missing regulating signal (analogue input drops below dSL value)	Unchanged
E01	DLT alarm active	Output disabled, alarm output activated
E02	A dLn number of DLT alarms in time interval (in hours) dLi was detected.	Output disabled, alarm output activated
E03	Digital input configured as bAL function is active	Output disabled, alarm output activated
E05	Missing regulating signal (analogue input drops below dSL value more than dEr time)	Output disabled, alarm output activated
E07	Low temperature alarm active	Output disabled, alarm output activated
P1	Analogue input error	Output disabled, alarm output activated
P2	Temperature transducer in error	Output disabled, alarm output activated

**13.1 ALARM RECOVERY**

Probe alarms "P1" and "P2" start dEr seconds after the fault in the read value; they automatically stop few seconds after the probe restarts normal operation. Check connections before replacing the probe. Alarms E01, E03 and E05 automatically stop as soon as their root causes disappear. Alarm E02 and E07 require a manual re-start by switchinff OFF and ON the device or by sending a MODBUS command.

**14. TECHNICAL DATA**

**Housing:** self extinguishing ABS  
**Case:** 4 DIN modules 70x135mm with male and female connectors; depth 60mm  
**Mounting:** DIN RAIL mounted in an omega (3) din rail  
**Protection:** IP20  
**Connections:** screw terminal block ≤ 2.5 mm<sup>2</sup> wiring  
**Power supply:** 24Vac/dc ±10%; 110VAC ±10% or 230VAC ±10%  
**Power absorption:** depending on connected valve 20VA max  
**Display:** 3.5 digits with icons, red LEDs, height 14.2 mm  
**Temperature input:** 1 temperature probe  
**PT1000 probe:** -55 to 200°C (-67 to 392°F)  
**NTC10k probe:** -40 to 110°C (-40 to 230°F)  
**NTC86k probe:** -40 to 180°C (-40 to 356°F)  
**Analogue control input:**  
 0 to 10Vdc  
 4 to 20mA  
**Digital inputs:** 1 free of voltage  
 1 isolated (voltage depending on the power supply)  
**Digital outputs:** 1 relay output, 8(3)A, 250VAC  
 1 open collector output, max current 40mA  
**TRIAC output:** max 30W  
**Data storage:** on the non-volatile memory (EEPROM)  
**Kind of action:** 1B  
**Pollution degree:** normal  
**Software Class:** A  
**Operating temperature:** 0 to 55°C (32 to 131°F)  
**Storage temperature:** -25 to 60°C (-13 to 140°F)  
**Relative humidity:** 20 to 85% (no condensing)  
**Resolution:** 0.1°C or 1°F  
**Precision a 25°C (77°F):** ±0.7°C ±1digit

**15. STANDARD VALUES**

Label	Description	Range	Default	Level
oA1	Digital output 1 configuration	nu; ALr; CPR; dmd	CPr	Pr1
oA2	Digital output 2 (o.c.) configuration	nu, ALr	nu	Pr2
oP1	Digital output 1 polarity	oP; CL	oP	Pr1
oP2	Digital output 2 (o.c.) polarity	oP; CL	oP	Pr2
tbA	Alarm output deactivation	no; Yes	no	Pr2
bEn	Buzzer (software) management	on; oFF	on	Pr2
P2C	Temperature probe configuration (it depends on the hardware)	nu; Pt1; nTC; n86	(*)	Pr1
o2	Probe P2 calibration	-12 to 12°C; -21 to 21°F	0.0	Pr1
PA4	Analogue input at 4mA or 0V	0 to 100%	0.0	Pr2
P20	Analogue input at 20mA or 10V	0 to 100%	100	Pr2
Lod	Default displayed variable	PEr; Ain; P2	PEr	Pr1
CF	Units of measurement for temperature	°C; °F	°C	Pr1
rES	Temperature resolution (valid only if CF=°C)	in; dE	dE	Pr1
i1F	Digital input 1 configuration (voltage free contact)	nP; EAL; bAL; onF	EAL	Pr1
i2F	Digital input 2 configuration (high voltage input)	nP; EAL; bAL; onF	onF	Pr1
i1P	Digital input 1 polarity	oP; CL	CL	Pr1
i2P	Digital input 2 polarity	oP; CL	CL	Pr1
Sut	Start up time: valve activation time before starting the regulation	0.0 to 25.5 sec	3.0	Pr1
tdG	Modulation time interval	6 to 40 sec	20	Pr1
ALL	Low temperature alarm	-30 to 200°C; -22 to 392°F	-30	Pr2
dLL	Low temperature alarm activation delay	0 to 999 sec	180	Pr2
dLt	Discharge line temperature	-30 to 200°C; -22 to 392°F	145	Pr1
dth	Differential	0 to 99.9°C; 0 to 999°F	10	Pr1
dLd	DLT alarm activation delay	0 to 999 sec	60	Pr1
dCt	Cooling time for DG compressor after DLT alarm	0 to 255 min	10	Pr1

dLn	Number of DLT alarms in dLi hours before blocking compressor	0 to 15, 0=function disabled	0	Pr2
dLi	Time interval (in hours) in which to check dLn number of DLT alarms	0 to 24 hours; 0=function disabled	0	Pr2
CEd	Maximum compressor capacity (in percentage) in case of probe error	0 to 100%	100	Pr2
Cdd	Maximum compressor capacity (in percentage) in case of DLT alarm and for time dLd	0 to 100%	100	Pr2
CEi	Maximum compressor capacity (in percentage) in case of regulation input error	0 to 100%	100	Pr2
dEr	Alarm delay in case of regulation input/probes reading error	0 to 999 sec	30	Pr2
2on	Minimum delay between two DG compressor start-ups	0 to 255 min	5	Pr1
2oF	Delay between DG compressor switch-off and start-up	0 to 999 sec	120	Pr1
odo	Power on regulation delay	0 to 999 sec	5	Pr1
dSL	Lower limit for control signal (in percentage). 0=function disabled.	0 to 100%	0	Pr2
Si0	Minimum input value in percentage	0 to 100%	0	Pr2
Si1	Maximum input value in percentage	0 to 100%	100	Pr2
PMi	Minimum load in percentage	0 to 100%	0	Pr2
PMA	Maximum load in percentage	0 to 100%	100	Pr2
A2F	ALARM key timed function configuration (push button timed, 3 sec)	nu; onF	nu	Pr2
Adr	Serial address	1 to 247	1	Pr2
bAU	Baudrate for serial communication	9.6; 19.2	9.6	Pr2
dP1	Analogue control signal (read only)	-	-	Pr1
dP2	Probe P2 display (read only)	-	-	Pr1
d1S	Digital input status display (isolated input)	-	-	Pr1
d2S	Digital input status display (high voltage input)	-	-	Pr1
rEL	Release Firmware (read only)	-	-	Pr1
Ptb	Parameters table code (read only)	-	-	Pr1
Pr2	Protected parameters menu access	-	-	Pr1

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