User Manual EN
Electronic controller

INFOLOGIC®
For **ROLLAIR®**
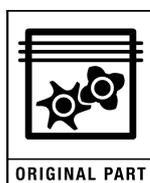
WARRANTY

The INFOLOGIC® has a warranty for 12 months from the date of commissioning
or a maximum of 18 months from date of manufacture (which ever occurs first).

The warranty shall be applicable only if the installation conditions and the maintenance operations
specified in this user manual are followed.
The guarantee is limited to replacing parts that are recognised as defective by our services.

NOTA :

This user manual complies with the requirements stipulated by the guidelines on machine
safety 98 / 37 / CE and is valid for machines carrying the CE label.

CONTENTS

Chapter 1 - Safety Measures

SAFETY

The personnel using the INFOLOGIC® shall use safe work practices and respect the local instructions and regulations concerning safety and hygiene.

All electrical tests shall be carried out according to the professional rules. Always cut off the electrical power supply before starting any kind of maintenance work.

INSTALLATION

The electrical cabinet should have a free access for facilitating maintenance, the location of INFOLOGIC® shall allow at any moment the visibility of luminous indicators and the digital display.

QUALIFICATION

The INFOLOGIC® shall be used only by competent, trained and qualified personnel; the manipulation of parameters can modify the characteristics and the performances of the compressor.

MAINTENANCE AND REPAIRS

The works of maintenance and repairs and the configuration of the INFOLOGIC® can be carried out only by competent and qualified personnel.
If spare parts are required, use only the original parts supplied by the manufacturer.

EXTERNAL CONTROL

The Stop and Start buttons on the controller are deactivated when the INFOLOGIC® control is on "remote" or "LAN".

To stop the machine with the controller, it must first be placed in Local mode (see § 3.17)

Chapter 2 - Introduction

2.1 - Control panel

2.2 - Introduction

In general, the INFOLOGIC® controller has following functions :
- Controlling the compressor
- Protecting the compressor
- Monitoring components subject to, service
- Automatic restart after voltage failure (made inactive in the works)

2.3 - Autornatic control of the compressor

The regulator maintains the net pressure between programmable limits by automatically loading and unloading the compressor. A number of programmable settings, e.g. the unloading and loading pressures, the minimum stop time and the maximum number of motor starts are taken into account.

The regulator stops the compressor whenever possible to reduce the power consumption and restarts it automatically when the net pressure decreases.

2.4 - Protecting the compressor

Shut-down

If the compressor element outlet temperature exceeds the programmed shut-down level, the compressor will be stopped. This will be indicated on display (1) page 3. The compressor will also be stopped in case of overload of the drive motor.

⚠	Before remedying, consult the Safety precautions.

Shut-down warning

A shut-down waming level is a programmable level below the shut-down level.

If one of the measurements exceeds the programmed shut-down warning level, this will aiso be indicated to warn the operator before the shut-down level is reached.

2.5 - Service waming

If the service timer exceeds a programmed value, this will be indicated on display (1) page 3 to wam the operator to carry out some service actions.

2.6 - Automatie restart after voltage failure

The regulator has a built-in function to automatically restart the compressor when the voltage is restored after voltage failure. This function is deactivated in compressors leaving the factory. If desired, the function can be activated. Consult the consumer service centre.

⚠	If activated, and provided the regulator was in the automatic operation mode, the compressor will automatically restart when the supply voltage to the module is restored.

Chapter 3 - INFOLOGIC® regulator

3.1 - Control panel

Ref.	Name	Function
S10	Emergency stop button	Push button to stop the compressor immediately in the event of an emergency. After remedying the trouble, uniock the button by pulling it out and press reset key (4).
1	Stop button (red)	Push button to stop the compressor. LED (10) goes out. The compressor will stop after running in unloaded condition for about 30 seconds.
2	Start button (green)	Push button to start the compressor. LED (10) lights up indicating that the regulator is operative (in automatic operation).
3	Display	Indicates the compressor operating condition, actually measured values and programmed parameters.
4	Resetkey	Key to reset the service timer, a shut-down condition, etc or to return to a previous display.
5	Enter key	Key to select or validate a parameter, to open a sub-display.
6	Voltage on LED (green)	Indicates that the voltage is switched on.
7	Pictograph	Voltage on.
8	General alarm LED (red)	Is lit if a waming condition exists.
8	General alarm LED (red)	Flashes in the event of a shut-down or emergency stop condition.
9	Pictograph	Alarm.
10	Automatic operation LED (green)	Indicates that the regulator is automatically controlling the compressor: the compressor is loaded, unloaded, stopped and restarted depending on the air consumption and the limitations programmed in the regulator. The LED is lit during automatic operation and flashes when the unit is remotely controlled.
11	Pictograph	Automatic operation.
12	Downwards scroll key	Key to scroll downwards through the screens or to decrease a setting.
13	Upwards scroil key	Key to scroll upwards through the screens or to increase a setting.
14	Pictograph	Remote operation

3.2 - Display

Description

Normally display (1) shows :

      • The compressor status by means of pictographs

      • The air outlet pressure

      • The actual temperature at the compressor element outlet

      • The dew-point temperature (for compressors with incorporated dryer option).

      The display also shows all measured and programmed parameters, see section Scrolling through all screens.

3.3 - Pictographs used on the screen

Pictographs

Pictograph	Description
	Compressor status LOAD (during loaded running, the horizontal arrow flashes).
	Compressor status UN LOAD.
	LOAD and UNLOAD indication.
	Element outlet temperature.
	Dew-point temperature.
	Motor or motor overload or order of phases - if on option.
	Emergency stop pressed.
	Service pictograph.
	LAN control or network setting.

3.4 - Main screen

Procedure

When the voltage is switched on, the Main screen is shown automatically, showing in short the operation status of the compressor and the outlet pressure:

Main screen, typical example

	⬇⬆ symbol	
	bar 6,8	

The screen shows that the compressor is running loaded (the horizontal arrow flashes) and that the outlet pressure is 6.8 bar(e).

👁	Always consult us if <est> appears on the display.

Also consult section Scrolling through all screens.

3.5 - Shut-down waming

3.5.1 - Description

A shut-down warning will appear in the event of :
   • Too high a temperature at the outlet of the compressor element
   • Too high a dew-point temperature for compressors fitted with this option,

3.5.2 - Compressor element outlet temperature
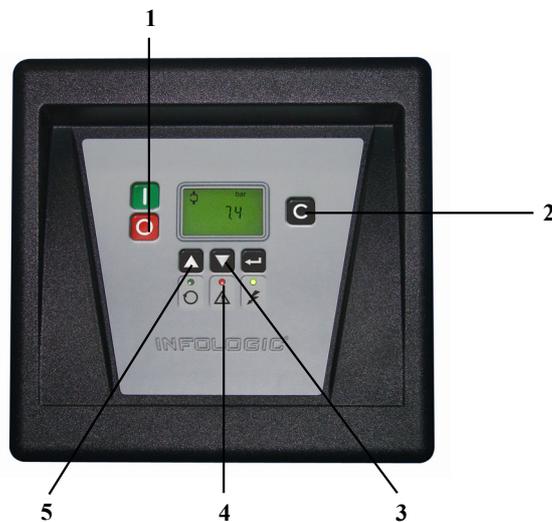
   • If the outlettemperature of the compressorelementexceeds the shut-down warning level (105 °C /221 °F), alarrn LED (4) will light up and the related pictograph will appear fiashing.

Main screen with warning element outlet temperature

⬇⬆ symbol		🌡 pictograph
		flashing
	bar 6,6	

   • Press arrow key (3), the actual compressor element temperature appears.

Warning screen, element outlet temperature

		$\bigcirc$ $\mathbf{I}$
		flashing
	°C 106	

The screen shows that the temperature at the outlet of the compressor element is 106°C.

- It remains possible to scroil through other screens (using keys 3 and 5) to check the actual status of other parameters.

- Press button (1) to stop the compressor and wait until the compressor has stopped.

- Switch off the voltage, inspect the compressor and remedy.

- The warning message will disappear as soon as the warning condition disappears.

3.5.3 - Dew-point temperature

For compressors with integrated dryer:

- If the dew-point temperature exceeds the warning level (not programmable), alarrn LED (4) will light up and the related pictograph will appear fiashing.

Main screen with warning dew-point temperature

		$\bigcirc$ $\mathbf{I}$
		flashing
	bar 6,6	

- Press arrow key (3) until the actual dew-point temperature appears.

Warning screen, element outlet temperature

		$\bigcirc$ $\mathbf{I}$
		flashing
	°C 9	

The screen shows that the dew-point temperature is 9 °C.

- It remains possible to scroll through other screens (using keys 3 and 5) to check the actual status of other parameters.

- Press button (1) to stop the compressor and wait until the compressor has stopped.

- Switch off the voltage, inspect the compressor and remedy.

- The warning message will disappear as soon as the warning condition disappears.

3.6 - Shut-down

3.6.1 - Description

The compressor will be shut down in case :

- The temperature at the outlet of the compressor element exceeds the shut-down level
- Of error of the outlet pressure sensor
- Of overload of the drive motor

3.6.2 - Compressor element outlet temperature
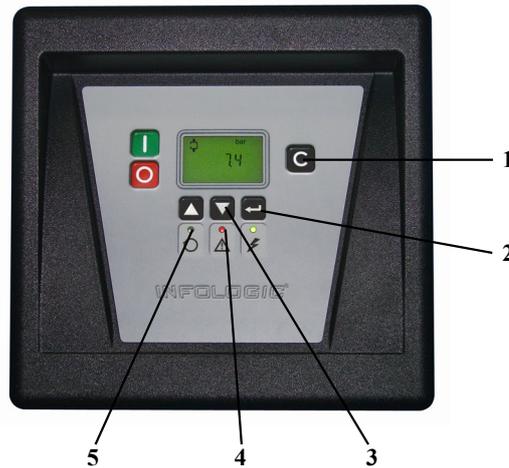
If the outlet temperature of the compressorelementexceeds the shut-down level (110 °C/230 °F, programmable) the compressor will be shut-down, alarm LED (4) will flash, automatic operation LED (5) will go out and the following screen will appear:

Main screen with shut-down indication, element outlet temperature

		⊘‖
		flashing
	bar 6,6	

   • Press arrow key (3) until the actual compressor element temperature appears.

Shut-down screen, element outlet temperature

		⊘‖
	flashing	flashing
	°C 111	

The screen shows that the temperature at the outlet of the compressor element is 111°C.

   • Switch off the voltage and remedy the trouble.
   • After remedying and when the shut-down condition has disappeared, switch on the voltage and restart the compressor.

3.6.3 - Motor overload

   • In the event of motor overload, the compressor will be shut-down, alarrn LED (4) will flash, automatic operation LED (5) will go out and the following screen will appear :

Main screen with shut-down indication, motor overload

⊡		
flashing		
	bar 6,6	

   • Switch off the voltage and remedy the trouble.
   • After remedying and when the shut-down condition has disappeared, switch on the voltage and restart the compressor.

3.7 - Servioe waming

3.7.1 - Description

A service warning will appear when the service timer has reached the programmed time interval.
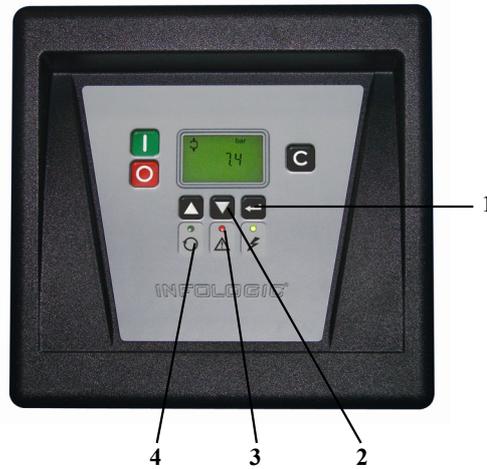
• If the service timer exceeds the programmed time interval, alarm LED (3) will light up.

• Press arrow key (2) to scroll to <d06> and the service symbol is shown. Press key (1), the actual reading of the service timer appears and is shown in <hrs> or <xI000 hrs> (if the service timer value is higer than 9999).

Example of service timer screen

<d06>		
	<hrs> 4002	

The screen shows that the reading of the service timer is 4002.

• Press arrow key (2) to scroll to <d01 > and the running hours symbol is shown.
Press key (1), the actual reading of the service timer appears and is shown in <hrs> or <xl 000 hrs> (if the service timer value is higer than 9999).

Example of service timer screen

<d01>		
	<hrs> 8000	

• Stop the compressor, switch off the voltage and carry out the service actions. See section Preventive maintenance schedule.

	• The longer interval service actions must aiso include the shorter interval actions. In the example above, carry out ail service operations belonging to the 8000 running hours interval as well as those belonging to the 4000 running hours interval.

• After servicing, reset the service timer. See section Calling up/resetting service timer.

3.8 - Scroiling through all screens

3.8.1 - Control panel

Control panel

Scroli keys (2 and 3) can be used to scroll through ail screens. The screens are divided into register screens measured data screens, digital input screens (numbered as <d.in>, <d.01>, ...), parameter screens (numbered as <P.01>, <P.02>, ...) protections screens (numbered as <Pr. 0 1 >, ...) and test screens (numbered as <t.01>, ...).

During scrolling, the numbers of the screens appear consecutively. For most screens, the unit of measurement and the related pictograph are shown together with the screen number.

In the event of a waming or a shut-down, the corresponding pictograph is blinking on the main screen.

Example

	<hrs> <d.01>	

The screen shows the screen number <d.0 1 >, the unit used <hrs> and the related pictograph for running hours. Press enter key (1) to call up the actual running hours.

In the event of a warning or a shut-down, the corresponding pictograph is blinking on the main screen.

3.8.2 - Overview of the screens

Digital input screen	Designation	Related topic
<d.in>	Digital input status	
<d.01>,	Running hours (hrs or xl 000 hrs)	See section Calling up running hours
<d.02>	Motor starts (x 1 or xl 000)	See section Calling up motor starts
<d.03>	Module hours (hrs or xl 000 hrs)	See section Calling up module hours
<d.04>	Loading hours (hrs or x 1000 hrs)	See section Calling up loading hours
<d.05>	Load relay (xl or xl 000)	See section Calling up load relay
<d.06>	Service timer reading (hrs or xl 000 hrs)	See section Calling up/resetting service timer
<d.07>	Actual prograrn version	

Pararneter screen	Designation	Related topic
<P.01>	Selection between local, remote or LAN control	See section Selection between local, remote or LAN control
<P.02>	Setting a node ID for LAN control	See section Calling up modifying node ID
<P.03>	Pressure band settings	See section Calling up/modifying pressure band settings
<P.04>	Setting a pressure band selection	See section Modifying pressure band selection
<P.05>	Modifying a service timer	See section Calling up/modifying service timer
<P.06>	Setting of unit for temperature	See section Calling up/modifying unit for temperature
<P.07>	Setting of unit for pressure	See section Calling up/modifying unit for pressure
<P.08>	Selection for function: Automatic restart after voltage failure	See section Activating automatic restart after voltage failure
<P.09>	Selection between Y-D or DOL starting	See section Selection between Y-D or DOL starting
<P.10>	Setting of load delay time	See section Calling up modifying load delay time
<P.l 1>	Setting of minimum stop time	See section Calling up modifying minimum stop time
<P.12>	Setting a password	See section Activating password protection

Protections screen	Designation	Related topic
<Pr.01>, <Pr.02>, <Pr.03>	Protections screens	See section Calling up modifying protection settings

Test screen	Designation	Related topic
<t.01>	Display test	See sections Test screens
<t.02>	Safety valve test	See sections Test screens

3.9 - Menu flow
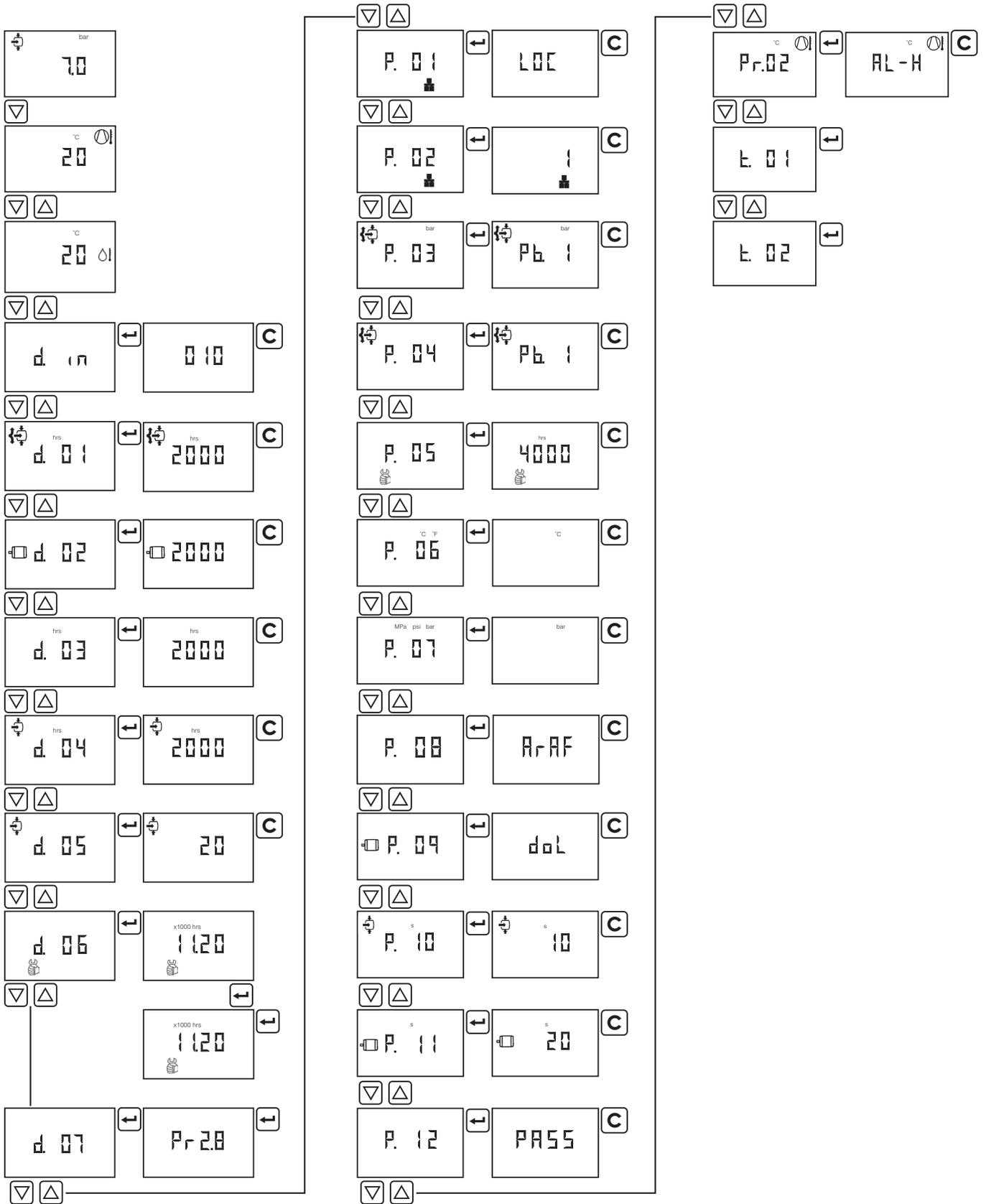
Simplifted menu flow

3.10 - Calling up outlet and dew-point temperatures

Control panel

Starting from the Main screen :

⇊		
	bar 6,6	

• Press arrow key (2), the outlet temperature will be shown :

		⊘▯
	°C 83	

The screen shows that the outlet temperature is 83 °C.

   • Compressor with incorporated dryer option :

   Press arrow key (2), the dew-point temperature will be shown :

	°C 3	◊▯

The screen shows that the dew-point temperature is 3 °C.

   • Press arrow keys (2 and 3) to scroll downwards or upwards through the screens.

3.11 - Calling up running hours

Control panel

3   2   1

Starting from the Main screen :

⬇		
	bar 6,6	

• Press arrow key (2) until <d.01> is shown and then press enter key (1) :

(icon)		
	<x 1000 hrs> 11.25	

The screen shows the unit used <xl 000 hrs> and the value < 1 1.25>: the running hours of the compressor are 11250 hours.

3.12 - Calling up motor starts

Control panel

3   2   1

Starting from the Main screen :

⬇️🔲⬆️ (symbol)		
	bar 6,6	

• Press arrow key (2) until <d.02> is shown and then press enter key (1) :

⊏▭ (motor symbol)		
	<x 1000 > 10.10	

This screen shows the number of motor starts times 1000 (times 1 or if <xl 000> lits up times 1000). The number of motor starts is 10 100.

3.13 - Calling up module hours

Control panel

Starting from the Main screen :

⬇️🔲⬆️ (symbol)		
	bar 6,6	

• Press arrow key (2) until <d.03> is shown and then press enter key (1) :

	<hrs > 5000	

The screen shows the unit used <hrs> and the value <5000>: the module hours of the compressor are 5000 hours.

3.14 - Calling up loading hours

Control panel

3   2   1

Starting from the Main screen :

⤓⤒		
	bar 6,6	

• Press arrow key (2) until <d.04> is shown and then press enter key (1) :

⤓⤒		
	<hrs > 1755	

The screen shows the unit used <hrs> (or <x1000 hrs> and the value <1755>: the loading hours of the compressor are 1755 hours.

3.15 - Affichage du nombre de mise en charge

Control panel

3   2   1

Starting from the Main screen :

⬇ (enter symbol)		
	bar 6,6	

• Press arrow key (2) until <d.05> is shown and then press enter key (1) :

⬇ (enter symbol)		
	<x1000> 10,10	

This screen shows the number of unload to load actions (times 1 or if " 1 000> lits up times 1000). The number of unioad to load actions is 10100.

3.16 - Calling upiresetting service timer

3.16.1 - Control panel

Starting from the Main screen :

⬇ (enter symbol)		
	bar 6,6	
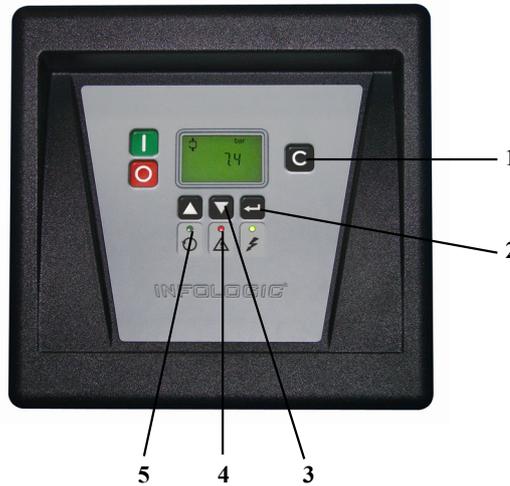
• Press arrow key (3) until <d.06> is shown and then press enter key (2) :

	<hrs> 1 191	
🔧 (wrench/hand symbol)		

This screen shows the unit used <hrs> (or <xl 000> hours x 1000) and the value < 1191 >: the compressor has run 1191 hours since the previous service.

3.16.2 - Resetting the service tirner

After servicing, see section Service warning, the timer has to be reset :

- Scroli to register screen <d.06> and press enter key (2).
- The reading (e.g. 4000) will appear.
- Press enter key (2), if a password is set enter the password. The reading will flash (indicating that resetting is possible).
- Press enter key (2) to, reset the timer to <0.000> or press reset key (1) to cancel the operation.

3.17 - Selection between local, remote or LAN control

Control panel

3   2   1

Starting from the Main screen :

	bar 6,6	

- Press arrow key (2) until <P.01 > is shown and then press enter key (1). The actually used control mode is shown <LOC> for local control, <rE> for remote control or <LAn> for LAN control.
- Press enter key (1) and if necessary enter the password. The actually control mode is blinking. Use keys (2) and (3) to change the control mode.
- Press enter key (1) to program the new starting mode or press reset key to cancel.

3.18 - Calling up modifying node ID for LAN control

Control panel

3   2   1

Starting from the Main screen :

	bar 6,6	

• Press arrow key (2) until <P.02> is shown and then press enter key (1). The actually used node ID is shown.

• Press enter key (1) and if necessary enter the password. The actually used node ID is blinking. Use keys (2) and (3) to change the node ID.

• Press enter key (1) to program the new node ID or press reset key to cancel .

3.19 - Calling up modifying pressure band settings

Control panel

Starting from the Main screen :

	bar 6,6	

• Press arrow key (2) until <P.03> is shown and then press enter key (1). Pressure band 1 <Pb.l> is shown on the display, key (2) can be used to scroll to pressure band 2 <Pb.2>.

• Press enter key (1) on desired pressure band. The load level of the selected pressure band appears, key (2) can be used to scroil to the unload level.

Loading pressure

	bar 6,4	

Unloading pressure

⟨ symbol ⟩		
	bar 7,0	

• Press enter key (1) to modify the load level (value starts blinking). A password may be required. Use keys (2) and (3) to change the load pressure.

• Press enter key (1) to program the new values or press reset key to cancel.

3.20 - Modifying pressure band selection

Control panel

3   2   1

Starting from the Main screen :

⟨ symbol ⟩		
	bar 6,6	

• Press arrow key (2) until <P.04> is shown and then press enter key (1). The active pressure band 1 <Pb.1 > is shown on the display.

• Press enter key (1) to modify the pressure band selection (a password may be required). The active pressure band <Pb.1 > starts blinking.

Dans l'écran principal :

⟨ symbol ⟩		
	Pb.1	

• Press key (2) to modify the active pressure band. Press enter key (1) to, confirm or reset key to cancel.

3.21 - Calling up/modifying service timer setting

Control panel

Starting from the Main screen :

	⬇	
	bar 6,6	

• Press arrow key (2) until <P.05> is shown and then press enter key (1) : the setting of the service timer is shown in <hrs> (hours) or <xl000 hrs> (hours x 1000). Example: <4000 hrs> means the timer is set at 4000 running hours.

• Press enter key (1) to modify this value (a password may be required), the value blinks. Use arrow keys (2 and 3) to modify this setting.

• Press enter key (1) to program the new value and to return to the parameter screens.

3.22 - Calling up/modifying unit of temperature

Control panel

Starting from the Main screen :

	bar 6,6	

- Press arrow key (2) until <P.06> is shown and then press enter key (1). The possible settings are: <°C> and <°F>; the actually used unit is shown.

- Appuyer sur la touche Entrée (1) (l'unité clignote), puis utiliser les touches fléchées (2 et 3) pour sélectionner une unité de température différente.

- Appuyer sur la touche Entrée (1) pour programmer la nouvelle unité, puis appuyer sur la touche de réarmement pour revenir aux écrans de paramètres.

3.23 - Calling up/modifying unit of pressure

Control panel

Starting from the Main screen :

	bar 6,6	

- Press arrow key (2) until <P.O> and the possible settings are shown <Mpa>, <psi>, and <bar>, press enter key (1) and the actually used unit is shown.

- Press enter key (1) (unit starts blinking) and use arrow keys (2 and 3) to select another unit of pressure.

- Press enter key (1) to program the new unit of pressure and press reset key to return to, the parameter screens.

3.24 - Activating automatic restart after voltage failure

Description

This parameter, accessible in screen <P.08>, can only be modified after entering a code. Consult us if this function should be activated.

3.25 - Selection between Y-D or DOL starting

Control panel

3 2 1

Starting from the Main screen :

	bar 6,6	

- Press arrow key (2) until <P.09> and the motor pictograph is shown and then press enter key (1). The actually used starting mode is shown <Y-d> for Y-D (star-delta) or <doL> for DOL (direct-on line).
- This parameter can only be modified after entering a code. Consult us if the parameter is to be changed.

3.26 - Calling up modifying load delay time

Control panel

3 2 1

Starting from the Main screen :

	bar 6,6	

- Press arrow key (2) until <P.10> and the compressorload pictograph is shown and then press enter key (1) :

	<s> 10	

- This screen shows the load delay time 10 and the unit <s> seconds. To modify this value press enter key (1).
- An optional password may be required, the value starts blinking and arrow keys (2) and (3) can be used to modify the value.
- Press enter key (1) to prograrn the new value, press reset key to cancel.

3.27 - Calling up modifying minimum stop time

Control panel

Starting from the Main screen :

	bar 6,6	

- Press arrow key (2) until <P.11> and the motor pictograph is shown and then press enter key (1) :

	<s> 10	

- This screen shows the minimum stop time 10 and the unit <s> seconds. To modify this value press enter key (1).
- The value starts blinking and arrow keys (2) and (3) can be used to modify this value.
- Press enter key (1) to program the new value.

3.28 - Activating password protection

Control panel

Important settings such as the setting of the service timer, pressure band setting, control mode settings,... can be protected by a password.

3 2 1

Starting from the Main screen :

⤵		
	bar 6,6	
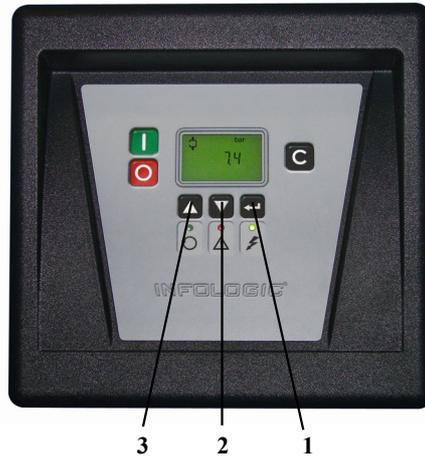
• Press arrow key (2) until <P.12> and press enter key (1) :

	<PASS>	

• Password <**PASS**> appears on the screen. Press enter key (1).

• The screen shows the password status on <On> or off <OFF>. Press enter key (1) to modify.

• Change the value with scroll keys (2) and (3).

• Select <On> and press enter key (1).

• Enter the new password and press enter key (1) to confirm.

• Enter the password again and press enter key (1) to confirm.

• <On> appears on the display. Press reset key to return to the parameter screen.

👁	Lost passwords can not be recovered. Save the password carefully.

3.29 - Calling up modifying protection settings

Protections

3 2 1

A number of protection settings are provided. The protection screens are numbered <Pr.>, the pictograph shown with the protection screen indicates the purpose of the protection.

Possible combinations are <Pr.> followed by a number and one of the next pictographs :

Pictograph	Designation
⤓⤒	<Pr> shown with the pressure pictograph shows the pressure protections.
⊘〡	<Pr.> shown with the element outlet temperature pictograph shows the element outlet temperature protections.
◊〡	<Pr.> shown with the dewpoint temperature pictograph shows the dewpoint temperature protections.
〡	<Pr> shown with the ambient temperature pictograph shows the ambient temperature protections.

Four protection settings are possible :

    • A low waming level shown on the display as <AL-L>.
    • A high waming level shown on the display as <AL-H>.
    • A low shut-down level shown on the display as <Sd-L>.
    • A high shut-down level shown on the display as <Sd-H>

Example of protection screen

    3   **2**   **1**

Starting from the Main screen :

⤓⇥⤒		
	bar 6,6	

    • Press arrow key (2) until <Pr.> followed by a number and the element outlet temperature is shown and then press enter key (1):

		⊘〡
	<°C> <Pr.01>	

		⌀┃
	<AL-H>	

- The warning level for the high temperature waming level <AL-H> and the high temperature shut-down level <Sd-H>. Use scroll keys (2 and 3) from the waming level to the shut-down level, press enter key (1) to modify the value
- The value appears on the display.
- Press enter key (1) to modify the value.
- An optional password may be required, the value starts blinking and arrow keys (2) and (3) can be use to modify the value.
- Press enter key (1) to program the new value, press reset key to cancel.

👁	Programmable settings can only be modified within allowed limits.

3.30 - Test screens

Display test

3   2   1

Starting from the Main screen :

⇲		
	bar 6,6	

- Press arrow key (2) until <t.01> is shown and then press enter key (1) :

Safety valve test

In the test screen <.02> a safety valve test is provided. The safety valves can only be tested after entering a code.
Consult us if the safety valves are to be tested.

NOTES

62 305 451 99