

MASTER CONTROL MENU SELECTION

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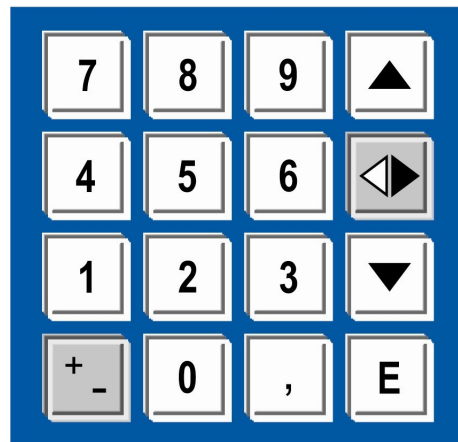
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Symbols, Legend and Function Keys

B01	B02	B03	B04	B05	B06	B07	B08
B01 compressor load	B02 compressor unload	B03 compressor ready	B04 compressor not ready	B05 compressor fault	B06 not programmed	B07 compressor manual	B08 fault of RS 485

Explanation of compressor symbols

push the „up arrow“

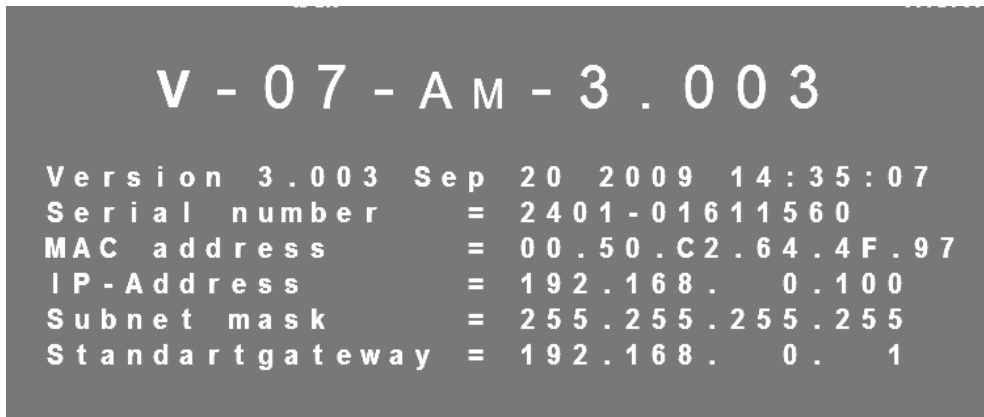
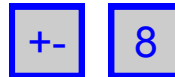


Button	Function
E	ENTER - open the Main menu
▲	Cursor up
▼	Cursor down
◀▶	Cursor left—right
+ - and ◀▶	press simultaneous = Cursor left-right
E and ◀▶	Back to the Main screen
4	Showing status of compressors modules
7	Showing status of connection modules
1 and ▲	More contrast of display
1 and ▼	Less contrast of display
1	= YES (Y)
0	= NO (N)

Info Master Controller

Select  to retrieve Firmware Version, Serial Number and MAC Address

IP-Address, Subnet and Standard gateway can be programmed based on your network requirements.

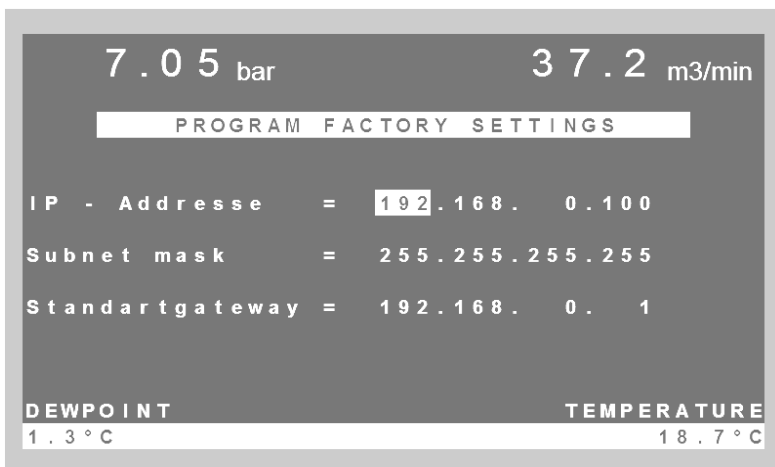


[Program IP-address](#)



ENTER CODE

Set Code „000000“
 Press button enter „E“



IP-address program following parameter

- IP-Address
- Subnet mask
- Standard gateway

Function Keys

The following is an overview of the key functions on the control panel. Function keys are only display if there is an input to this function.

Press siultaneously

STATUS DEWPOINT MEASUREMENT
STATUS TEMPERATURE MEASUREMENT
STATUS ENERGY MEASUREMENT KW
STATUS NET PRESSURE MEASUREMENT
STATUS EXTRA PRESSURE MEASUREMENT
STATUS CURRENT MEASUREMENT AMPERE
SD CARD MANAGEMENT
STATUS FLOW MEASUREMENT
PROGRAM FACTORY SETTINGS
STATUS SD CARD

+ -	0
+ -	,
+ -	▼
+ -	1
+ -	2
+ -	3
+ -	5
+ -	6
+ -	8
+ -	9

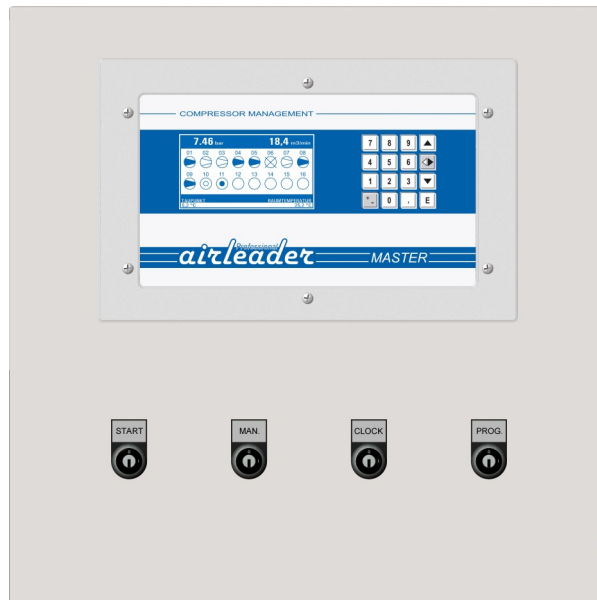
STATUS COMPRESSOR MODULE 02			
Ready	B = Off	Relay 1	C-NO
Motor	M = Off	Relay 2	C-NC
Fault	S = Off		
A I 1	12,4 mA =	8,5	m ³ /min
A I 2	10,3 mA =	75,4	°C
AO	11,6 mA		

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STATUS ANALOG MODULE 17			
B = On	Relay 1	C-NO	
M = On	Relay 2	C-NC	
S = Off			
A I 1	11,4 mA =	4,1	°C DTP
A I 2	18,3 mA =	25,4	°C
AO	11,6 mA		

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Key Switch Functions



Start/Stop Key Switch

When in Stop position the Airleader unloads all compressors and will time out based on the internal shut-off timers.

E.g. This key-switch can be used for shut-off on weekends.

Warning this will bring air pressure to zero PSI.

Auto/Manual Key Switch

The Auto position enables the compressors to be controlled by the Airleader. If turned to manual the compressors will work on internal (local) control settings.

Clock Key Switch

When activated the time clock can be used to select different pressure profiles and/or compressor rankings that are pre-programmed. If clock key-switch is off the pressure range profile 1 and compressor ranking profile 1 will be activated.

Programming Key Switch

When turned "ON" the Airleader can be programmed.

Note: For remote programming with web-server plus software programming key must be in the "OFF" position.

Equal running time same sized compressors

Time Cycle Compressor Order

The time cycle compressor order give the opportunity to rotate same sized compressors to keep the running hours equal.

Warning: this will only work if the compressors have the same ranking and same size (CFM).

To program COMPRESSOR rotation

Push the **E** to enter the menu

PROGRAMMING COMPRESSOR CONTROL

Push the **E** to enter the menu

TIME CYCLE COMPRESSOR ORDER					
COMPRESSORS		m ³ /min	h	min	
with	2.5 . . .	16.0	04	00	
with		20.0	04	00	
with		18.0	04	00	
with		12.5	02	00	

Adjust date and time

Adjust Airleader time

Push the **E** to enter the menu

Scroll down to "CLOCK RELAY"

Push the to select

Adjust time and date

Push the **E** to confirm/save

The first screenshot shows the main menu with '7.05 bar' and '37.2 m3/min' at the top. The menu items are: PROGRAMMING COMPRESSOR CONTROL, PROGRAMMING ANALOG-DIGITAL INPUTS, STATUS DATA, CLOCK RELAY, LANGUAGE, DEWPOINT (1.3 °C), and TEMPERATURE (18.7 °C).

The second screenshot shows the 'ADJUSTING DATE' screen with '7.05 bar' at the top. The menu items are: ADJUSTING DATE, CLOCK RELAY-PROGRAM SWITCH POINTS, DEWPOINT (1.3 °C), and TEMPERATURE (18.7 °C).

The third screenshot shows the 'ADJUSTING DATE' screen with '7.05 bar' at the top. The menu items are: Weekday (We), Day (03), Month (03), Year (2010), Hour (12), Minute (40), Second (13), DEWPOINT (1.3 °C), and TEMPERATURE (18.7 °C).

Programming - time clock

The clock relay

permits following time controlled functions

- Switching compressors ON/OFF
- 4 pressure profiles
- 4 rank profiles
- 2 digital outputs for relays to switch ON/OFF additional equipment like (Dryer, ball valves, etc.)

The dates for the 2nd, 3rd. and 4th

pressure profile and rank profile must be configured in the main menu

"CLOCK" Key switch "ON"

The clock function can only be activated with the clock key switching.

Up to 16 switching points can be programmed in the menu clock

"CLOCK" Key switch "OFF"

deactivates the clock relay functions.

The compressors management is switching the compressors to the

- 1st pressure profile
 - 1st rank profile
- that is programmed in the basic menu over the data of the 1st pressure and 1st rank profile

Example:

1. Monday to Friday from 6:00-22:00h

- Control system ON
- Pressure profile 1
- Rank profile 1
- Digital output R1 ON for dryer

2. Monday to Friday from 22:00-24:00 h

- Lower pressure with pressure profile 2 and rank profile 2
- At the same time switching to a smaller dryer switched by digital output R2

3. At 00:00 h

- The compressed air equipment is switched OFF by the clock relay

Selected days with CAPITAL LETTERS

will be switched by the real time clock

7.05 bar 37.2 m3/min

PROGRAMMING COMPRESSOR CONTROL

PROGRAMMING ANALOG-DIGITAL INPUTS

STATUS DATA

CLOCK RELAY

LANGUAGE

DEWPOINT 1.3 °C TEMPERATURE 18.7 °C

7.05 bar 37.2 m3/min

CLOCK RELAY

ADJUSTING DATE

CLOCK RELAY - PROGRAM SWITCH POINTS

DEWPOINT 1.3 °C TEMPERATURE 18.7 °C

7.05 bar 37.2 m3/min

ADJUSTING DATE

Weekday : We

Day : 03

Month : 03

Year : 2010

Hour : 12

Minute : 40

Second : 13

DEWPOINT 1.3 °C TEMPERATURE 18.7 °C

7.05 bar 37.2 m3/min

CLOCK RELAY - PROGRAM SWITCH POINTS

SP	WEEKDAY	TIME	ON/OFF	PP	RP	R1	R2
01	MTWTFss	06:00	EIN	1	1	1	0
02	MTWTFss	22:00	EIN	2	2	0	1
03	mtwtfss	00:00	AUS	1	1	0	0
04	mtwtfss	00:00	AUS	1	1	0	0
05	mtwtfss	00:00	AUS	1	1	0	0
06	mtwtfss	00:00	AUS	1	1	0	0
07	mtwtfss	00:00	AUS	1	1	0	0
08	mtwtfss	00:00	AUS	1	1	0	0

DEWPOINT 1.3 °C TEMPERATURE 18.7 °C

Review Status Data

Status data

The following status data can be selected in this menu:

- Compressor running times
- Deleting compressor running times
- Status of compressor modules
- Status of connecting modules for external equipment

```

7.05 bar          37.2 m3/min
STATUSDATEN
-----
COMPRESSOR RUNNING TIMES
ERASE COMPRESSOR RUNNING TIMES
COMPRESSOR MODULE
ANALOG MODULE
DEWPOINT          TEMPERATURE
1.3 °C           18.7 °C
    
```

The running times of the compressors

- Load hours
 - Total hours
- The running hours are stored from the time of operation with AIRLEADER

```

7.05 bar          37.2 m3/min
C Nr      Load  h min    Total  h min
O
M 01      75231  16      75241  59
P 02      28364  32      28374  25
R 03      47965  43      47969  17
E 04      2369   64      2379   42
S 05      34850  21      34854  63
S 06      25841  45      25848  36
O 07      5210   19      5218   24
R 08      110    07      111    54
R 08      110    07      111    54
DEWPOINT          TEMPERATURE
1.3 °C           18.7 °C
    
```

Delete running times

It is possible to delete the running times of all compressors. If the compressor running times shall be deleted, put the value on "Y" with the button "1" (YES) and confirm this with „E“ (Enter)

Status of Compressor modules shows

- status of digital inputs
- Digital outputs
- Analog inputs
- Analog output

```

7.05 bar          37.2 m3/min
STATUS COMPRESSOR MODULE 02
-----
Ready      B = Off      Relay 1 C-NO
Motor      M = Off
Fault      S = Off      Relay 2 C-NC

AI1 12,4 mA = 8,5 m3/min
AI2 10,3 mA = 75,4 °C
AO 11,6 mA

DEWPOINT          TEMPERATURE
1.3 °C           18.7 °C
    
```

Press button



Status of connected analog modules shows

- fault or running signal of dryer, filter, condensate drain etc.
- Analog value of connected sensors like dewpoint, temperature etc.

```

7.05 bar          37.2 m3/min
STATUS ANALOG MODULE 17
-----
B = On      Relay 1 C-NO
M = On
S = Off     Relay 2 C-NC

AI1 11,4 mA = 4,1 °C DTP
AI2 18,3 mA = 25,4 °C
AO 11,6 mA

DEWPOINT          TEMPERATURE
1.3 °C           18.7 °C
    
```

Press button

