



Service Parameters Instruction Istruzione Regolazione Parametri Service

Firmware "10"

Code: 393I0840
Ferroli name: ABM03C
Ferroli code: S4962V3182BV01
PCB codes: 38326223
Date: 07/03/2016
Rev: 01

The pcb is equipped with three menus: called Configuration, Service and Service NL.

The Configuration menu can be entered by pressing together for 10 seconds the Dhw temperature setpoint buttons. There are 21 parameters that can be changed only from the pcb.

Par.	Description	Default
b01	Gas type selection (0=Natural Gas, 1=LPG)	0
b02	DHW configuration (1=Instantaneous with double heat exchanger, 2=Storage tank, 3=Instantaneous with secondary heat exchanger, 4=Storage tank (230Vac 3 way valve))	1
b03	Water pressure protection (0=Switch, 1=Sensor)	0
b04	Fan absolute DHW maximum speed (Hz) - DHW config. 1 Fan absolute DHW maximum speed (Hz) - DHW config. 2 Fan absolute DHW maximum speed (Hz) - DHW config. 3 Fan absolute DHW maximum speed (Hz) - DHW config. 4	180 180 180 180
b05	Fan absolute CH maximum speed (Hz) - DHW config. 1 Fan absolute CH maximum speed (Hz) - DHW config. 2 Fan absolute CH maximum speed (Hz) - DHW config. 3 Fan absolute CH maximum speed (Hz) - DHW config. 4	165 165 165 165
b06	Fan absolute minimum speed (Hz) - DHW config. 1 Fan absolute minimum speed (Hz) - DHW config. 2 Fan absolute minimum speed (Hz) - DHW config. 3 Fan absolute minimum speed (Hz) - DHW config. 4	55 55 55 55
b07	DHW maximum output boost/limit level (%) - DHW config. 1 Not implemented - DHW config. 2 DHW maximum output boost/limit level (%) - DHW config. 3 Not implemented - DHW config. 4	100 -- 100 --
b08	DHW maximum output boost/limit time (Sec) - DHW config. 1 Not implemented - DHW config. 2 DHW maximum output boost/limit time (Sec) - DHW config. 3 Not implemented - DHW config. 4	60 -- 60 --
b09	Fan offset low level (Hz) - DHW config. 1 Fan offset low level (Hz) - DHW config. 2 Fan offset low level (Hz) - DHW config. 3 Fan offset low level (Hz) - DHW config. 4	10 10 10 10
b10	Summer/Winter function (0=Sum/Win, 1=always Win)	0
b11	Variable input switch functionality (Number)	0
b12	Variable output relay functionality (Number)	--
b13	External pcb variable output relay functionality (Number) - DHW config. 1 External pcb variable output relay functionality (Number) - DHW config. 2 External pcb variable output relay functionality (Number) - DHW config. 3 Not implemented - DHW config. 4	0 0 0 --
b14	Hours of no DHW flow to set the Economy mode (Hours)	24
b15	Fault F20 function (0=disable, 1=enable)	0
b16	Maximum exhaust gases temperature (°C)	100
b17	Main supply frequency (0=50Hz, 1=60Hz)	0
b18	DHW Comfort on time (Sec) - DHW config. 1 Not implemented - DHW config. 2 Not implemented - DHW config. 3 Not implemented - DHW config. 4	15 -- -- --
b19	DHW flow sensor filter (Sec) - DHW config. 1 Not implemented - DHW config. 2 DHW flow sensor filter (Sec) - DHW config. 3 Not implemented - DHW config. 4	0 -- 0 --
b20	Fan type selection (0=Sit, 1=Ebm)	0



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b21	Pump protection time (Sec)	5
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By pressing the Ch temperature setpoint buttons it is possible to select the parameters.

By pressing the Dhw temperature setpoint buttons it is possible to change the value of the parameter: the new value will be saved automatically.

The configuration menu can be exited by pressing together for 10 seconds the Dhw temperature setpoint buttons.

The Service menu can be entered by pressing for 20 seconds the Reset button. By pressing the Ch temperature setpoint buttons it is possible to select: "tS" means Transparent Parameters Menu, "In" means Inquiry Menu, "Hi" means History Menu, "rE" means Reset of the History Menu. After that selection, to enter the menu, it will be necessary push one time the Reset button.

"tS" - Transparent Parameters Menu

There are 31 parameters that can be changed also from the Remote Control (Menu Service):

Par.	Description	Default
P01	Ignition level (%) - Dhw config. 1 Ignition level (%) - Dhw config. 2 Ignition level (%) - Dhw config. 3 Ignition level (%) - Dhw config. 4	40 40 40 40
P02	CH slope control (°C/min)	2
P03	Minimum Virtual set point (°C) - Dhw config. 1 Minimum Virtual set point (°C) - Dhw config. 2 Minimum Virtual set point (°C) - Dhw config. 3 Minimum Virtual set point (°C) - Dhw config. 4	35 35 35 35
P04	CH OFF time (Min)	4
P05	CH pump over-run time (Min)	15
P06	CH pump selection (0-7)	0
P07	CH modulating pump PWM absolute min (%)	30
P08	CH modulating pump PWM start (%)	75
P09	CH modulating pump PWM absolute max (%)	100
P10	CH supply for CH pump over-run OFF (°C) - Dhw config. 1 CH supply for CH pump over-run OFF (°C) - Dhw config. 2 CH supply for CH pump over-run OFF (°C) - Dhw config. 3 CH supply for CH pump over-run OFF (°C) - Dhw config. 4	50 20 33 20
P11	CH supply for CH pump over-run ON (°C) - Dhw config. 1 CH supply for CH pump over-run ON (°C) - Dhw config. 2 CH supply for CH pump over-run ON (°C) - Dhw config. 3 CH supply for CH pump over-run ON (°C) - Dhw config. 4	10 5 47 5
P12	CH set point limit HIGH (°C)	80
P13	CH maximum output (%)	80
P14	Dhw off mode - Dhw config. 1 Legionella protection (0=off, 1-7=on) - Dhw config. 2 Dhw off mode - Dhw config. 3 Legionella protection (0=off, 1-7=on) - Dhw config. 4	0 0 0 0
P15	Dhw Comfort switch on point (°C) - Dhw config. 1 Dhw Comfort Hysteresis (°C) - Dhw config. 2 Dhw Comfort switch on point (°C) - Dhw config. 3 Dhw Comfort Hysteresis (°C) - Dhw config. 4	40 2 40 2
P16	Peak remove time (Sec) - Dhw config. 1 CH supply over-temp_burnerON (°C) - Dhw config. 2 Dhw Comfort temperature difference (°C) - Dhw config. 3 CH supply over-temp_burnerON (°C) - Dhw config. 4	0 80 20 80
P17	Dhw OFF time (Sec) - Dhw config. 1 Not implemented - Dhw config. 2 Dhw OFF time (Sec) - Dhw config. 3 Not implemented - Dhw config. 4	120 -- 120 --
P18	Dhw set point limit HIGH (°C) - Dhw config. 1 Dhw set point limit HIGH (°C) - Dhw config. 2 Dhw set point limit HIGH (°C) - Dhw config. 3	55 65 55



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	DHW set point limit HIGH (°C) - DHW config. 4	65
P19	DHW pump over-run time (Sec) - DHW config. 1	3
	DHW pump over-run time (Sec) - DHW config. 2	30
	DHW pump over-run time (Sec) - DHW config. 3	30
	DHW pump over-run time (Sec) - DHW config. 4	30
P20	DHW maximum output (%)	100
P21	DHW comfort off time1 (Min) - DHW config. 1	20
	Not implemented - DHW config. 2	--
	Not implemented - DHW config. 3	--
	Not implemented - DHW config. 4	--
P22	DHW comfort off time2 (Min) - DHW config. 2	42
	Not implemented - DHW config. 2	--
	Not implemented - DHW config. 3	--
	Not implemented - DHW config. 4	--
P23	Fan speed in Stand-by mode (Hz)	0
P24	Post-Ventilation time (Sec)	30
P25	Delta T1 (°C) - DHW config. 1	18
	Delta T1 (°C) - DHW config. 2	18
	Delta T1 (°C) - DHW config. 3	18
	Delta T1 (°C) - DHW config. 4	18
P26	Delta T2 (°C) - DHW config. 1	35
	Delta T2 (°C) - DHW config. 2	35
	Delta T2 (°C) - DHW config. 3	150
	Delta T2 (°C) - DHW config. 4	35
P27	Water pressure low limit (/10 bar)	4
P28	Water pressure nominal (/10 bar)	7
P29	Heat exchanger protection (°C/Sec) - DHW config. 1	10
	Not implemented - DHW config. 2	--
	Heat exchanger protection (°C/Sec) - DHW config. 3	10
	Not implemented - DHW config. 4	--
P30	CH hysteresys after burner ignition (°C)	10
P31	CH hysteresys after burner ignition timer (Sec)	60

By pressing the Ch temperature setpoint buttons it is possible to select the parameters.

By pressing the Dhw temperature setpoint buttons it is possible to change the value of the parameter: the new value will be saved automatically.

By pressing the Reset button it is possible to come back to Service menu index.

The Service menu can be exited by pressing for 20 seconds the Reset button.

The Service NL menu can be entered by pressing for 20 seconds the Reset button after Market Configuration selection. By pressing the Ch temperature setpoint buttons it is possible to select: "tS" means Transparent Parameters Menu, "In" means Inquiry Menu, "Hi" means History Menu, "rE" means Reset of the History Menu. After that selection, to enter the menu, it will be necessary push one time the Reset button.

"tS" - Transparent Parameters Menu

There are 18 parameters that can be changed also from the Remote Control (Menu Service):

Par.	Description	Default
i01	DHW configuration (1=Instantaneous with double heat exchanger, 2=Storage tank, 3=Instantaneous with secondary heat exchanger, 4=Storage tank (230Vac 3 way valve))	1
i02	Ignition level (%) - DHW config. 1	40
	Ignition level (%) - DHW config. 2	40
	Ignition level (%) - DHW config. 3	40
	Ignition level (%) - DHW config. 4	40
i03	Boiler output selection (Number)	4
i04	CH slope control (°C/min)	1
i05	CH pump selection (0-7)	4
i06	CH modulating pump PWM absolute min (%)	30



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i07	CH modulating pump PWM absolute max (%)	100
i08	CH set point limit HIGH (°C)	90
i09	CH maximum output (%)	80
i10	DHW maximum output (%)	100
i11	Fan speed in Stand-by mode (Hz)	0
i12	Delta T1 (°C) - DHW config. 1	18
	Delta T1 (°C) - DHW config. 2	18
	Delta T1 (°C) - DHW config. 3	18
	Delta T1 (°C) - DHW config. 4	18
i13	OTC curve selection (Num)	0
i14	OTC temperature offset (°C)	30
i15	Minimum virtual set point (°C) - DHW config. 1	45
	Minimum virtual set point (°C) - DHW config. 2	35
	Minimum virtual set point (°C) - DHW config. 3	35
	Minimum virtual set point (°C) - DHW config. 4	35
i16	External pcb variable output relay functionality (Number) - DHW config. 1	0
	External pcb variable output relay functionality (Number) - DHW config. 2	0
	External pcb variable output relay functionality (Number) - DHW config. 3	0
	Not implemented - DHW config. 4	--
i17	Peak remove time (Sec) - DHW config. 1	4
	Not implemented - DHW config. 2	--
	Not implemented - DHW config. 3	--
	Not implemented - DHW config. 4	--
i18	DHW Comfort pump on time - DHW config. 1	2
	Not implemented - DHW config. 2	--
	Not implemented - DHW config. 3	--
	Not implemented - DHW config. 4	--

By pressing the Ch temperature setpoint buttons it is possible to select the parameters.

By pressing the Dhw temperature setpoint buttons it is possible to change the value of the parameter: the new value will be saved automatically.

By pressing the Reset button it is possible to come back to Service NL menu index.

The Service NL menu can be exited by pressing for 20 seconds the Reset button.