



Unità di recupero di calore con recuperatore rotativo
Portata aria da 1.000 a 30.000 m³/h
Manuale di regolazione per controllo Eliwell – Manuale utente

ERSR

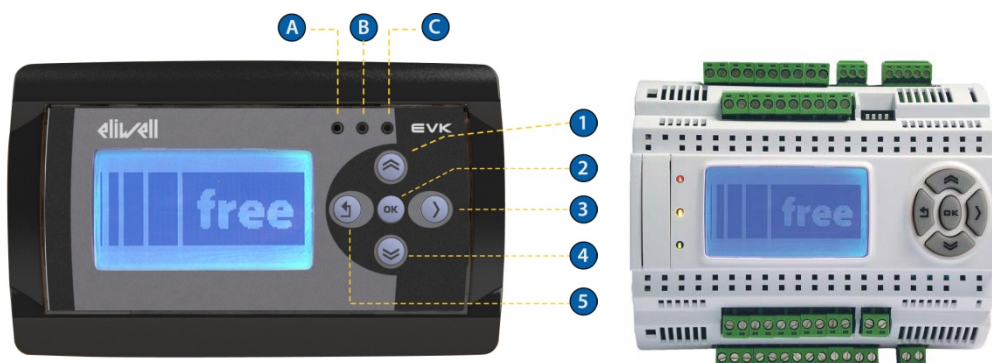


Indice

Funzione dei pulsanti	pag. 04
Schermata principale – Unità spenta	pag. 06
Schermata principale – Unità accesa	pag. 07
Accensione dell'unità	pag. 08
Spegnimento dell'unità	pag. 09
Modifica del setpoint di temperatura	pag. 10
Modifica del setpoint di deumidificazione	pag. 11
Accesso alla pagina dell'impostazione utente	pag. 12
Impostazioni	pag. 13
Fasce orarie	pag. 14
Stato & Setpoint	pag. 15
Allarmi e storico allarmi	pag. 17
Messaggi	pag. 20
Service – Accesso al Menù Sistema	pag. 21
Menù Sistema	pag. 22
Modulo plug in (EVS RS 485)	pag. 23
Lista variabili Modbus per unità con regolazione	pag. 24
Parametri variabili ModBus_ERSR	pag. 25

Manuale utente ERSR

Funzione dei pulsanti

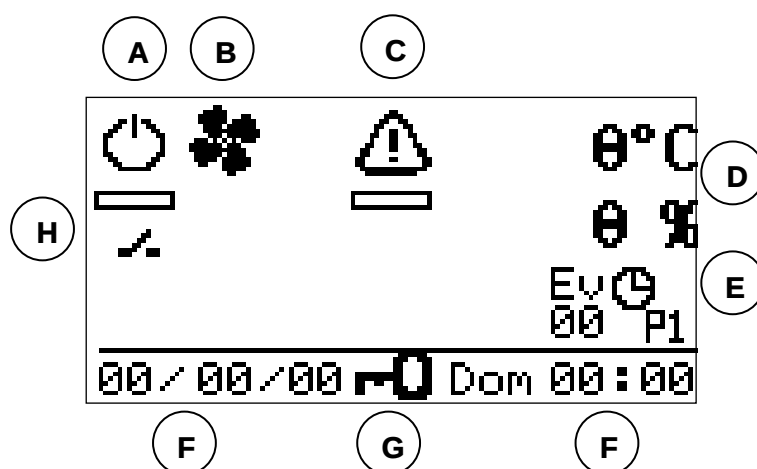


Pulsante	Pressione breve	Pressione lunga
	Navigazione: - permette di selezionare un oggetto (con movimento in senso antiorario) Cambio dei valori: - Modifica del valore	Sulla pagina principale: - permette di bloccare/sbloccare la tastiera
	Navigazione: - permette di selezionare un oggetto (con movimento in senso orario) Cambio dei valori: - Modifica del valore	Sulla pagina impostazioni e sulla pagina password: - permette di uscire dalla configurazione con password
	Navigazione: - permette di selezionare un oggetto (con movimento in senso antiorario) Cambio dei valori: - permette di spostare il cursore	Navigazione: - ritorno alla pagina precedente Cambio dei valori: - cancella il valore editato
	Navigazione: - permette di selezionare un oggetto (con movimento in senso orario) Cambio dei valori: - Change selected digit	Sulla pagina principale: - accede alla pagina delle impostazioni
	Navigazione: - Conferma il valore digitato - accede al menu dell'icona selezionata Cambio dei valori: - Conferma le modifiche	Sulla pagina allarmi: - Reset degli allarmi
Page Timeout	- Ritorno alla pagina precedente - Se sono sulla pagina principale si blocca la tastiera se abilitata	

Led

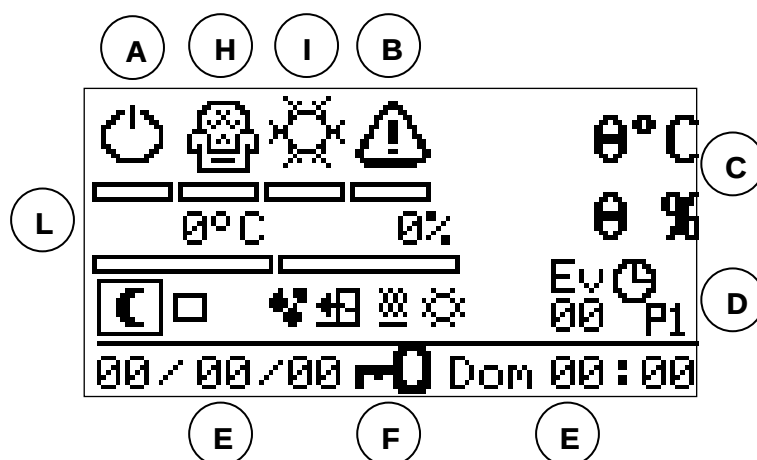
	Spento	Acceso	Lampeggio
Verde	ERSR spento	ERSR acceso	-
Giallo	-	Esecuzione delle funzioni con USB	-
Rosso	Assenza di allarmi attivi	Presenza di allarmi attivi	Presenza di allarmi resettabili

Schermata principale - Unità spenta



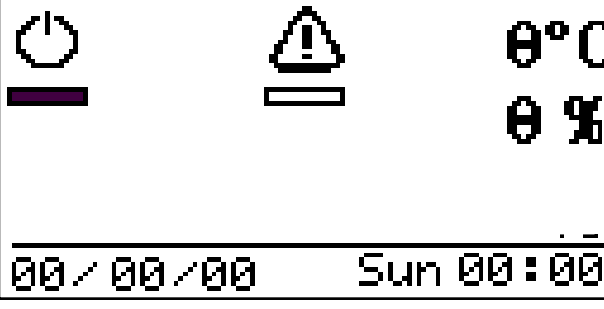
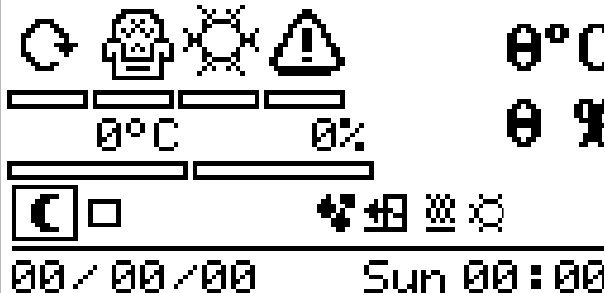
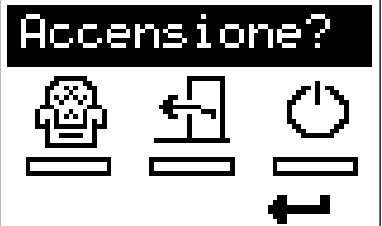
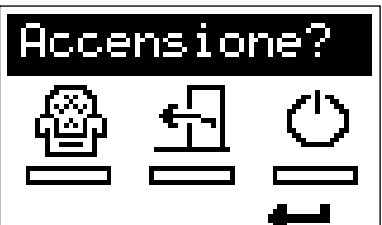
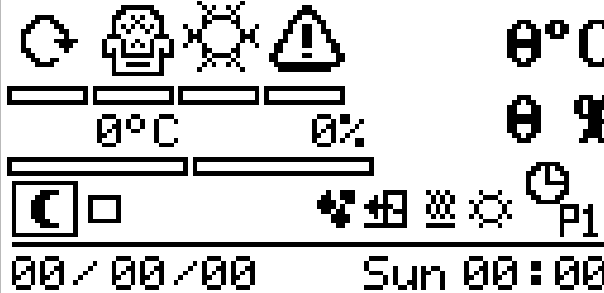
A	Pulsante On/Off con relative icona:  :unità spenta permanentemente da tastiera  :unità accesa da tastiera, l'unità può essere spenta da fascia oraria
B	Post ventilazione attiva
C	Pulsante con relative icona:  visibile se alcuni allarmi sono attivi
D	Temperatura e umidità regolazione
E	Profilo della fascia oraria attiva:  P1 - P1  P2 - P2  P3 - P3  P4 - P4  OFF - P5
F	Data e ora
G	 Visibile se la tastiera è bloccata
H	 Unità spenta da ingresso digitale

Schermata principale - Unità accesa

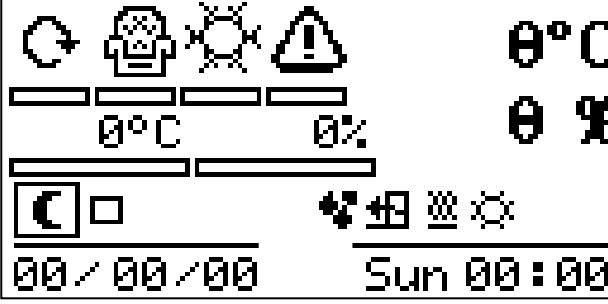
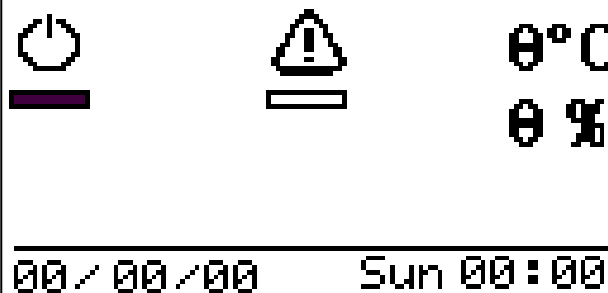
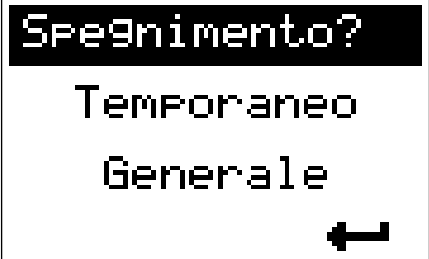
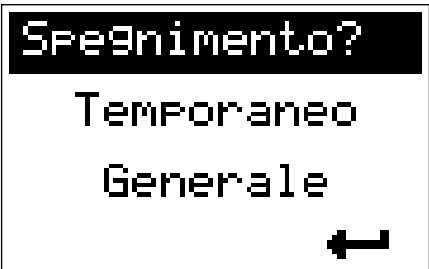
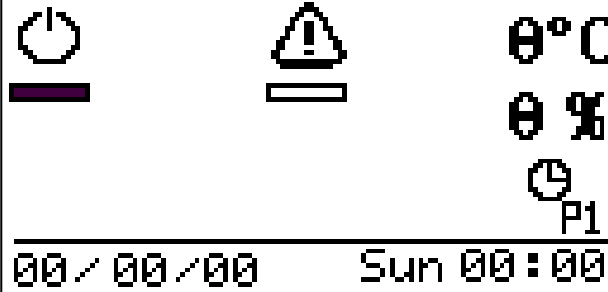


A	Pulsante On/Off con relativa icona: : unità accesa attraverso la tastiera
B	Pulsante con relative icona: visibile se alcuni allarmi sono attivi
C	Temperatura e umidità regolazione
D	Profilo della fascia oraria attiva: - P1 - P2 - P3 - P4 - P5 Modalità di funzionamento: - Raffreddamento; - Riscaldamento - Modalità Economy attivata - Deumidificazione attivata - Modalità Notte attivata
E	Data e ora
F	Visibile se la tastiera è bloccata
G	Unità spenta da ingresso digitale
H	Pulsante Comfort/Eco con relativa icona: - Modalità Comfort - Modalità Economy
I	Pulsante modalità di funzionamento con relativa icona: - Modalità Auto - Modalità raffreddamento - Modalità riscaldamento
L	Pulsante Setpoint con visualizzazione dei setpoint di temperatura e umidità

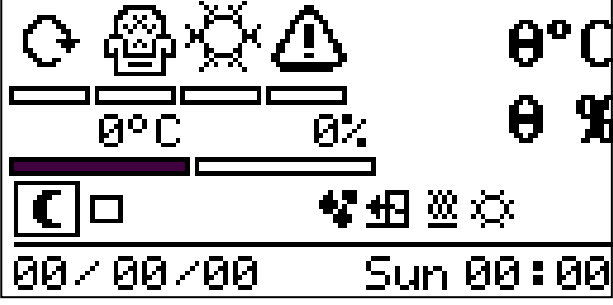
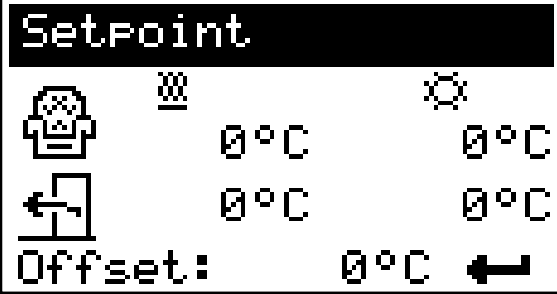
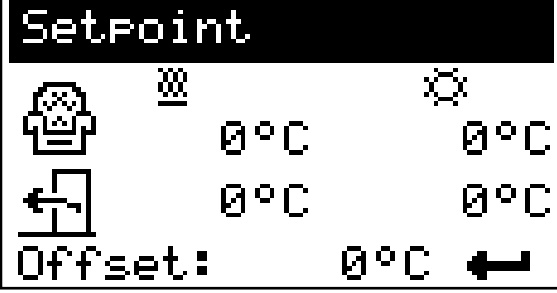
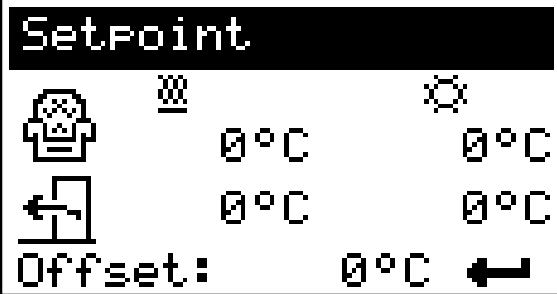
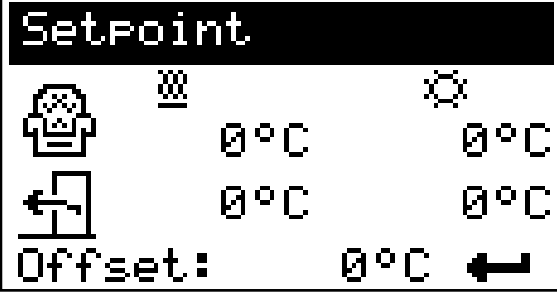
Accensione dell'unità

		Scorrere le icone fino a selezionare l'icona On/Off Premere OK per accendere l'unità.
1) 		Se le fasce orarie non sono attive, l'unità si accenderà immediatamente
2) 		Se le fasce orarie sono attive, comparirà questa finestra
		Selezionare <i>Comfort</i> o <i>Eco</i> se si vuole che l'unità riparta nella modalità selezionata fino all'evento previsto dalla fascia oraria. Selezionare <i>Stand nBy</i> se si vuole che l'unità si spenga indipendentemente dall'evento previsto dalla fascia oraria.
		Se le fasce orarie non sono attive, l'unità si accenderà immediatamente
3)		Questa finestra appare se l'unità è spenta da ingresso digitale ↘

Spegnimento dell'unità

		Scorrere le icone fino a selezionare l'icona On/Off
1) 		Se le fasce orarie non sono attive, l'unità si spegnerà immediatamente
2) 		Se le fasce orarie sono attive, comparirà questa finestra
		Selezionare <i>Temporaneo</i> se si desidera che l'unità al prossimo evento ripristini il modo di funzionamento secondo le fasce orarie. Selezionare <i>Generale</i> se si desidera che l'unità rimanga spenta al prossimo evento indipendentemente dalle fasce orarie.
		⏻ : Unità spenta permanentemente da tastiera ⌚ : Unità temporaneamente spenta

Modifica del setpoint di temperatura

		Scorrere le icone fino a selezionare l'icona del setpoint da modificare
		Apparirà questa finestra
		Selezionare il setpoint da modificare (Comfort oppure Economy)
		Modificare il valore e premere OK per confermare oppure premere a lungo Esc per cancellare la modifica. Nota: l'impostazione dei setpoints sono consentiti secondo la seguente logica: Eco Riscaldamento < Riscaldamento < Raffreddamento < Eco Raffreddamento
		Selezionare  e premere  per chiudere la finestra, oppure premere a lungo 

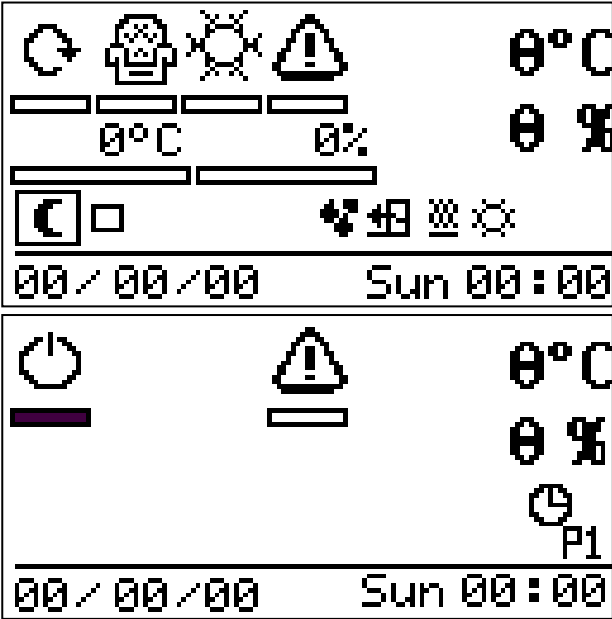
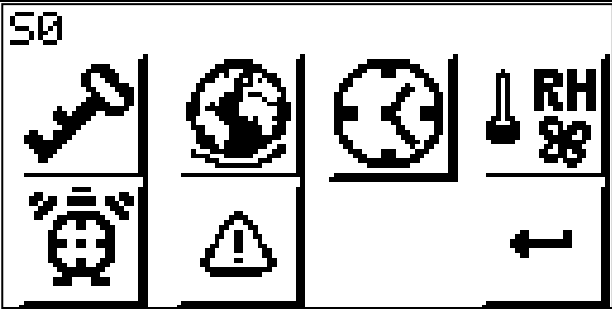
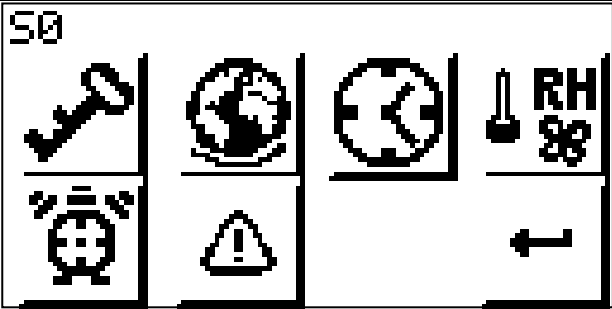
Modifica del setpoint di deumidificazione

Nota: la deumidificazione non è attiva su tutte le unità e quindi questa parte può non essere visibile sulla schermata.

		Scorrere le icone fino a selezionare l'icona del setpoint da modificare
		Apparirà questa finestra
		Selezionare il setpoint da modificare (Comfort oppure Economy)
		Modificare il valore e premere OK per confermare oppure premere a lungo Esc per cancellare la modifica. Nota: l'impostazione dei setpoints sono consentiti secondo la seguente logica: Eco Riscaldamento < Riscaldamento < Raffreddamento < Eco Raffreddamento
		Selezionare e premere per chiudere la finestra, oppure premere a lungo

Accesso alla pagina dell'impostazione utente

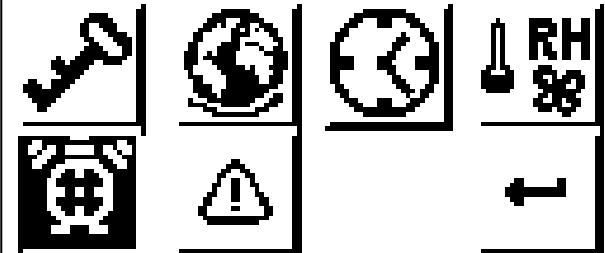
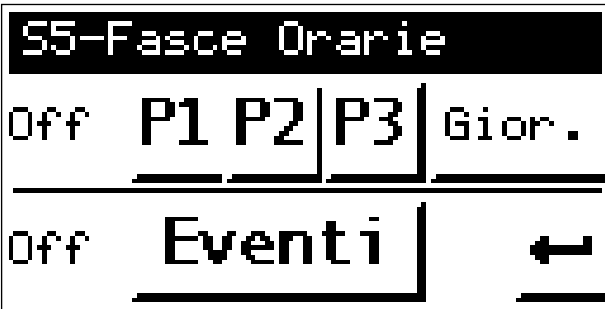
Nota: la deumidificazione non è attiva su tutte le unità e quindi questa parte può non essere visibile sulla schermata.

		Premere a lungo il pulsante di destra
		Apparirà questa finestra
   		Selezionare l'opzione desiderata e premere 

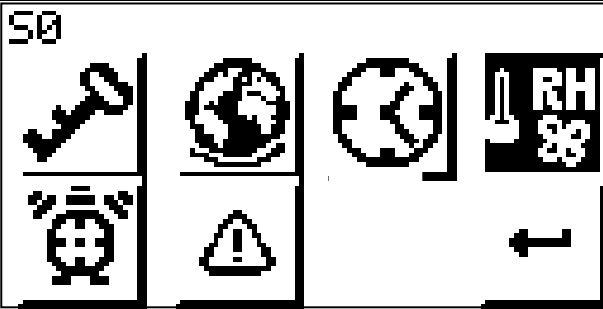
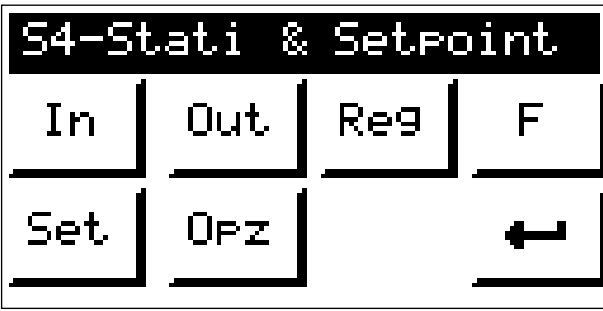
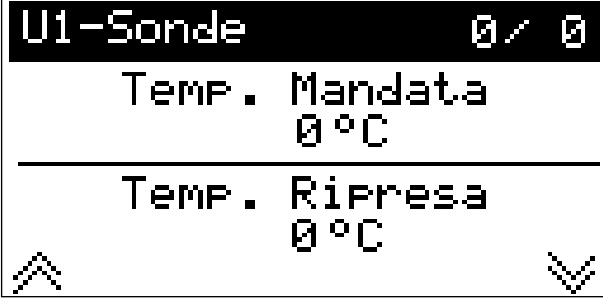
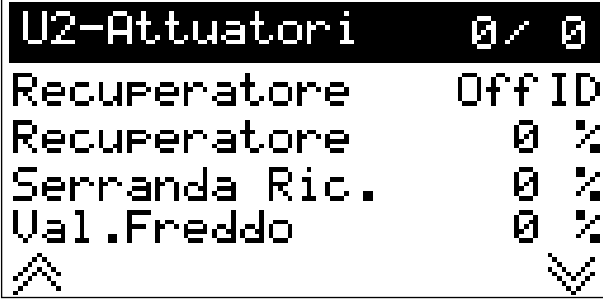
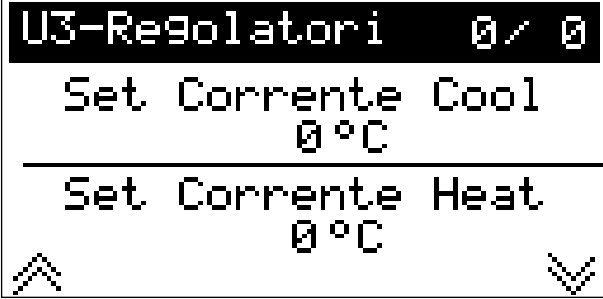
Impostazioni

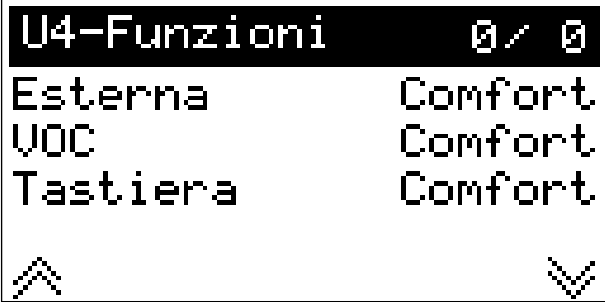
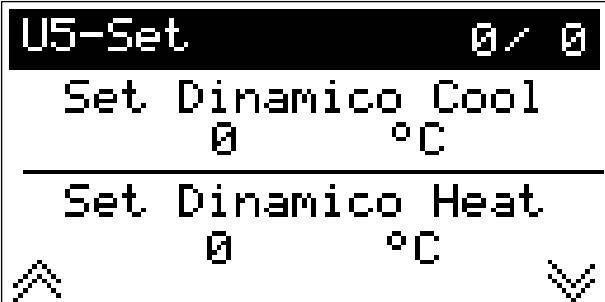
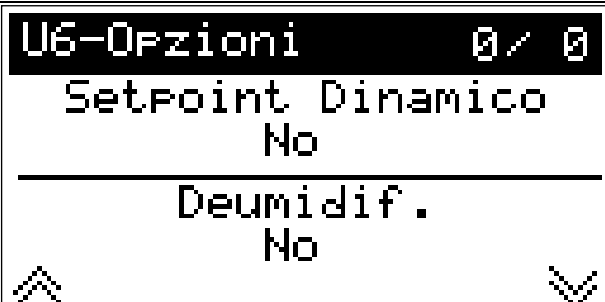
	Impostazioni Service S1-Password rev: abcde abcde ← → Ok		Impostazioni dello Stato e dei Setpoint S4-Stati & Setpoint <table border="1"> <tr> <td>In</td><td>Out</td><td>Reg</td><td>F</td></tr> <tr> <td>Set</td><td>Opz</td><td></td><td>←</td></tr> </table>	In	Out	Reg	F	Set	Opz		←
In	Out	Reg	F								
Set	Opz		←								
	Impostazioni Lingua S2-Lingue  English ←		Impostazioni Fasce Orarie S5-Fasce Orarie Off P1 P2 P3 Gior. Off Eventi ←								
	Impostazioni orologio S3-Data & Ora 00 : 00 : 00 Domenica 00 / 00 / 00 Aggiorna		Allarmi e storico allarmi S6-Allarmi Attivi - Res. Storico ←								

Fasce orarie

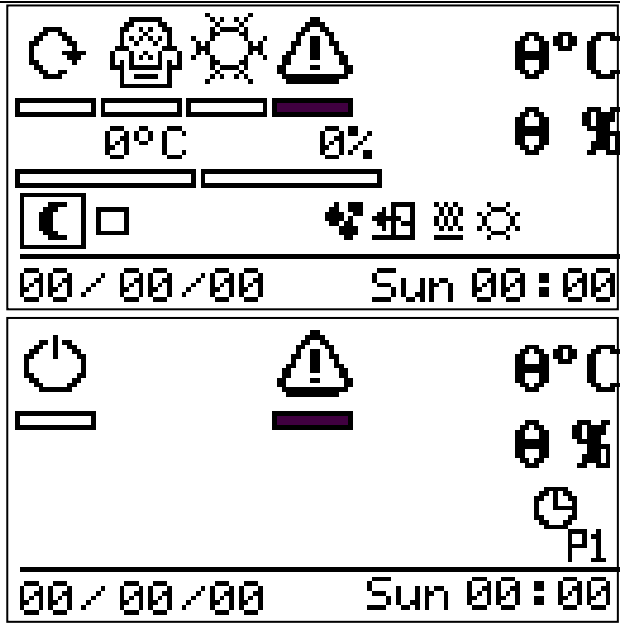
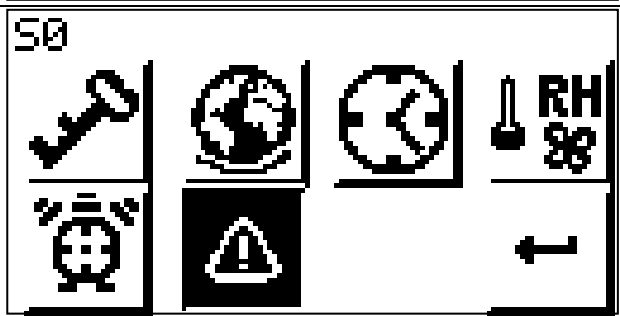
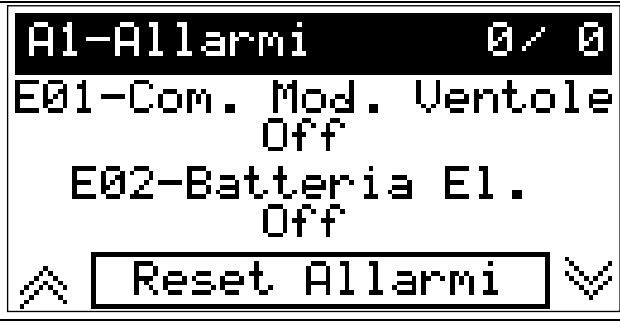
		La pagina delle fasce orarie è accessibile premendo il pulsante  sull'icona .
    		Apparirà la pagina a fianco. Selezionare ed eventualmente modificare <i>Off (On)</i> per abilitare/disabilitare le fasce orarie. Selezionare <i>Giorni</i> per modificare il profilo associate ad ogni giorno della settimana. Selezionare <i>P1, P2, P3</i> per modificare le impostazioni di profilo. I profili <i>P4, P5</i> non possono essere modificati. Essi corrispondono, rispettivamente, ad un profilo con tutti i giorni in On e tutti i giorni in Off.
    		Definire 2/4 eventi per i profili e i relativi modi di funzionamento:  Off -  Comfort -  Economy -  Night Premere <i>Salva</i> per aggiornare il profilo oppure premere  per cancellare
    		Definire il profilo associato per ogni giorno della settimana

Stato & Setpoint

OK		La pagina dello Stato e dei Setpoint è accessibile premendo il pulsante OK sull'icona 
OK		Selezionando una delle icone, l'utente accede alla lista seguente.
In		Misure effettuate dalla sonda: appare ----- nel caso in cui la sonda non sia connessa o sia in allarme
Out		Stato dei servocomandi: appare ----- nel caso in cui il servocomando non sia presente
Reg		Elenco degli stati: - Set Corrente Cooling (Raffreddamento) - Set Corrente Heating (Riscaldamento) - Limite mandata

F		Lista degli stati: - funzionamento Eco/Comfort da ingresso digitale - funzionamento Eco/Comfort da VOC - funzionamento Eco/Comfort da tastiera - Messa a regime
Set		Lista dei setpoint: - Setpoint dinamico Cooling (Raffreddamento) - Setpoint dinamico Heating (Riscaldamento) - Setpoint VOC (modificabile se attiva) - Cambio modo di funzionamento da temperatura esterna (modificabile se attiva) - Setpoint post-riscaldamento
Opt		Lista dei parametri: - Abilitazione/Disabilitazione del setpoint dinamico - Abilitazione/Disabilitazione della deumidificazione (l'abilitazione è possibile solo su alcune configurazioni)

Allarmi e storico allarmi

1) 		La pagina Allarmi è accessibile premendo il pulsante  sull'icona 
2) 		La pagina Allarmi è accessibile dalla pagina Impostazioni premendo  sull'icona 
2) 		Selezionare Attivi – Res.
   		Viene visualizzata la lista degli allarmi correnti non attivi e il relativo stato. Premendo a lungo il tasto  gli allarmi vengono resettati.

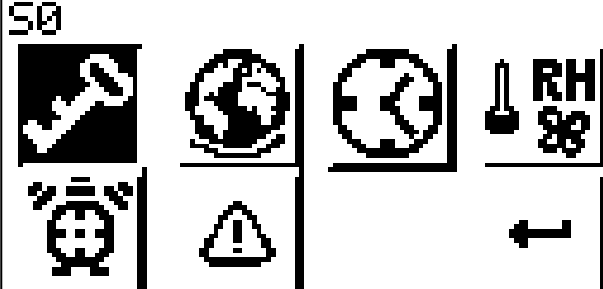
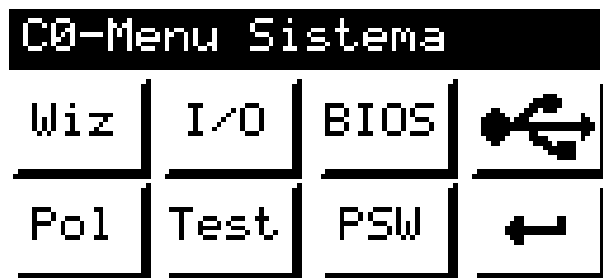
   	A2-Storico0/50 --- Off 00:00:0000000 Reset	Viene visualizzato lo storico degli allarmi
--	---	---

Allarmi e storico allarmi
E01-Comunicazione con SMART
E02-Batteria elettrica
E03-Sonda temperature esterna
E04-Sonda temperature ingresso
E05-Sonda temperatura espulsione
E06-Ingresso inverter
E07-Uscita inverter
E08-Sonda di pressione in ingresso aria
E09-Sonda di pressione in uscita aria
E10-Ingresso filtro
E11-Uscita filtro
E12-Sonda Umidità
E13-Allarme Fumo
E14-Sonda di regolazione
E15- Sonda di bassa pressione in ripresa aria
E16- Sonda di bassa pressione in mandata aria
E17-Antigelo
E18-Sonda antigelo
E19-Orologio
E20-Sonda VOC

Messaggi

		L'utente ha cercato di impostare un valore inferiore al valore minimo consentito.
		L'utente ha cercato di impostare un valore superiore al valore massimo consentito.5
		La tastiera risulta essere bloccata.

Service - Accesso al Menu Sistema

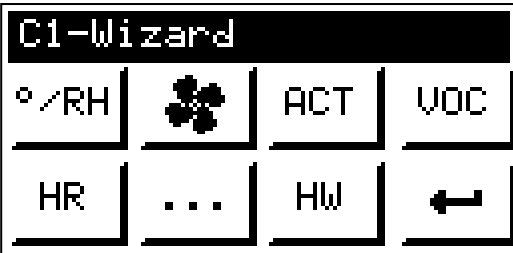
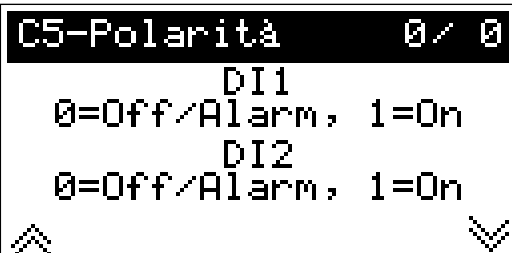
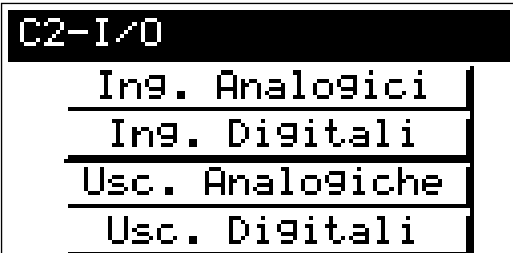
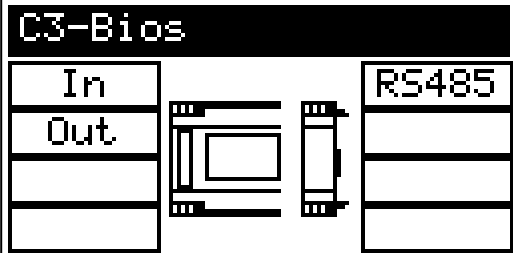
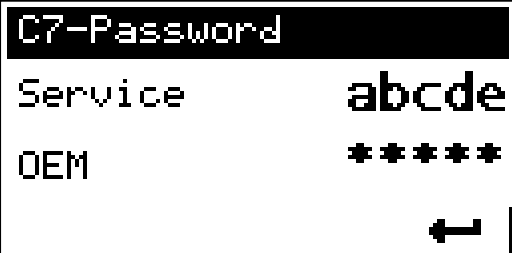
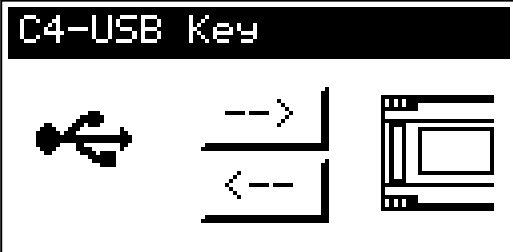
OK		La pagina Service è accessibile premendo il pulsante  sull'icona 
OK		Inserire la password e premere il pulsante OK
OK		Selezionare l'opzione desiderata e premere 

L'uscita dal menu che prevede la password può essere effettuata premendo a lungo il pulsante



all'interno della pagina Impostazioni o Password

Menu Sistema

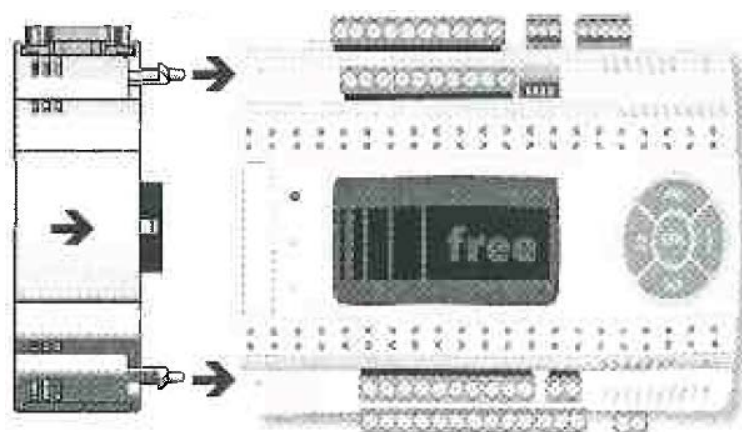
Wiz	Configurazione dell'unità 	Pol	Impostazione della polarità 
I/O	Valori I/O rilevati 	Test	Verifica uscite 
Bios	I/O e impostazione della Connettività 	Psw	Impostazione Password 
	Aggiornamento dell'applicativo / Download mappa parametri 		

Modulo plug in (EVS RS 485)

I plug-in sono dei moduli 2DIN che si collegano ad un controllore FREE Evolution EVD/EVC.

Per assemblare EVS a EVD/EVC procedere come segue:

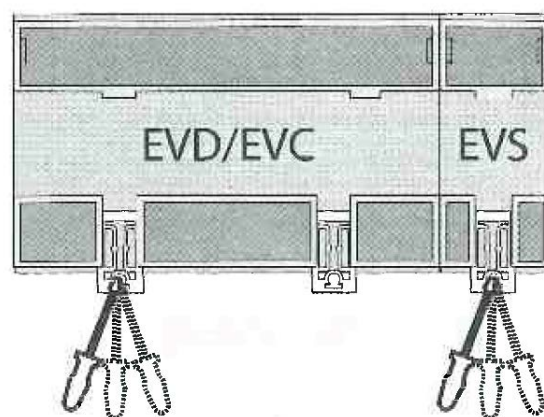
- rimuovere lo sportellino se presente sul fianco sinistro di EVD/EVC con le dita o un cacciavite;
- agganciare EVS a EVD/EVC tramite:
 - a) il connettore a pettine (plug in connector) presente dietro lo sportellino rimovibile.
 - b) tramite i ganci di fissaggio ai quali il plug-in EVS resta solidale al controllore.



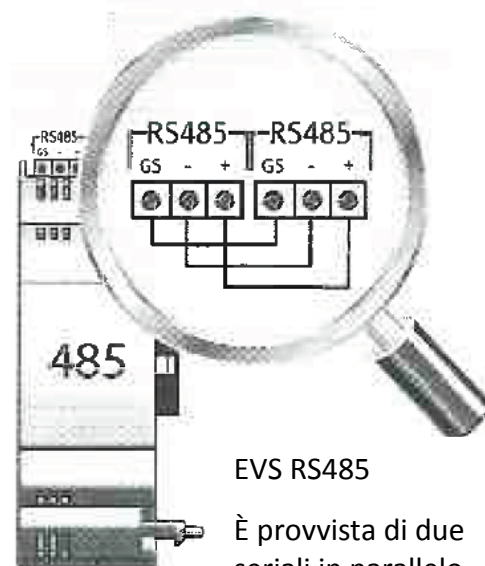
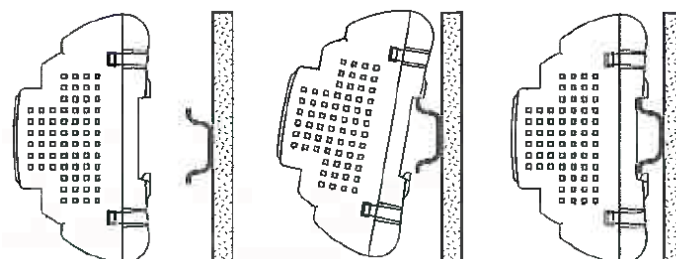
Per l'installazione su GUIDA DIN procedere come segue:

- portare i "dispositivi di aggancio a molla" (2 per EVD/EVC, 1 per EVS) in posizione di riposo (tramite l'impiego di un cacciavite) facendo leva sugli appositi vani;
- installare quindi lo strumento (EVD/EVC + EVS) sulla GUIDA DIN esercitando poi pressione sui "dispositivi di aggancio a molla" che si porteranno in posizione di chiusura.

NOTA BENE: A strumento assemblato su GUIDA DIN, i "dispositivi di aggancio a molla" dovranno essere orientati verso il basso.



Per la connessione con l'espansione EVE consultare il manuale d'Uso.



EVS RS485

È provvista di due seriali in parallelo

Lista variabili Modbus per unità con regolazione

RS485 Plug-in Passive						
Address	Name	Value	Um	Min	Max	Description
15782	Addr_RS485_PI	1	Num	0	255	RS485 passive Plug-In address
15783	Proto_RS485_PI	3=Modbus/RTU	Num	2	3	Select RS485 passive Plug-In protocol
15784	DataBit_RS485_PI	8	Num	8	8	RS485 passive Plug-In Data bit number
15785	StopBit_RS485_PI	1	Num	1	2	RS485 passive Plug-In stop bit number
15786	Parity_RS485_PI	Null	Num	0	2	RS485 passive Plug-In parity protocol
15787	Baud_RS485_PI	9600 bps	Num	0	5	RS485 passive Plug-In baud rate protocol

Parametri variabili ModBus_ERSR

Modbus	Variable	Type	UM	Default	Min	Max	Description
9010	TE_Enabled	R		0			Time management status: True = enabled; False = disabled
9011	TE_CurrentProfile	R		0			Current profile; when time management is enabled
9012	TE_CurrentMode	R		0			Current mode; when time management is enabled
9030	ST_CurrentState	R		0			Current On/Off state
9031	ST_DigitalInput	R		0			Remote On/Off state (from digital input)
9032	ST_TimeEvents	W		0			On/Off state from time events management
9040	ECO_CurrentMode	R		0			Current Comfort/Economy mode
9041	ECO_DigitalInput	R		0			Remote Comfort/Economy mode (from digital input)
9042	ECO_VocCo2	R		0			Comfort/Economy mode from VOC/CO2 probe
9050	MOD_CurrentMode	R		0			Current Cool/Heat mode
9051	MOD_DigitalInput	R		0			Remote Cool/Heat mode (from digital input)
9052	MOD_Auto	R		0			Cool/Heat mode from automatic change-over
9053	MOD_ChangeOverProbe	R		0			Selected probe for automatic change-over
9054	MOD_ChangeOverProbeValue	R	°C	0			Value read from automatic change-over probe
9055	MOD_ChangeOverHeatValue	R	C	0			Value for automatic change-over to HEAT mode
9056	MOD_ChangeOverCoolValue	R	°C	0			Value for automatic change-over to COOL mode
9060	T_CoolingSetpoint	R	°C	0			Temperature setpoint in COOL mode
9061	T_CoolingSetpointWithoutDynamicD iff	R	°C	0			Temperature setpoint in COOL mode w/o dynamic differential
9062	T_HeatingSetpoint	R	°C	0			Temperature setpoint in HEAT mode
9063	T_HeatingSetpointWithoutDynamicD iff	R	°C	0			Temperature setpoint in HEAT mode w/o dynamic differential
9064	RH_DehumidificationSetpoint	R	%R.H.	0			Relative humidity setpoint in dehumidification
9065	T_CurrentSetpointWithoutDynamicD iff	R	°C	0			Current temperature setpoint
9070	T_RegulationProbe	R	°C	0			Active thermoregulation probe
9071	RH_RegulationProbe	R	%R.H.	0			Active relative humidity regulation probe
9072	TR_SelectedRegulationProbe	R		0			Selected thermoregulation probe
9080	Er_GlobalAlarmStatus	R		0			Alarm status: 0 = no active alarm; 1 = at least one active alarm; 2 = waiting for reset
9082	Er_GeneralAlarm	R		0			General alarm (if TRUE the unit is off)
9083	Er_CommunicationError	R		0			Communication (with FREE Smart) error
9084	Er_ClockError	R		0			Clock error
9085	Er_ThermoregulationProbeError	R		0			Thermoregulation probe error
9086	Er_InletAirTemperatureProbeError	R		0			Inlet air temperature probe error
9087	Er_OutletAirTemperatureProbeError	R		0			Outlet air temperature probe error
9088	Er_ExternalTemperatureProbeError	R		0			External temperature probe error
9089	Er_AntifreezeTemperatureProbeErr or	R		0			Antifreeze temperature probe error
9090	Er_RoomRelativeHumidityProbeErr or	R		0			Room relative humidity probe error
9091	Er_SmartAIL3ProbeError	R		0			FREE Smart AIL3 probe error
9092	Er_SmartAIL4ProbeError	R		0			FREE Smart AIL4 probe error
9093	Er_AntifreezeAlarm	R		0			Antifreeze alarm
9094	Er_SmokeAlarm	R		0			Smoke alarm
9095	Er_OutletFilterPressureSwitchAlarm	R		0			Outlet air filter pressure switch alarm
9096	Er_InletFilterPressureSwitchAlarm	R		0			Inlet air filter pressure switch alarm
9097	Er_ElectricAirHeaterThermalAlarm	R		0			Electric air heater thermal alarm
9098	Er_OutletFanInverterAlarm	R		0			Outlet fan inverter alarm
9099	Er_InletFanInverterAlarm	R		0			Inlet fan inverter alarm
9100	Er_SmartAIL3LowValueAlarm	R		0			FREE Smart AIL3 probe low value alarm
9101	Er_SmartAIL4LowValueAlarm	R		0			FREE Smart AIL4 probe low value alarm
9102	Er_RoomAirQualityProbeError	R		0			FREE Smart AIL4 probe low value alarm
9110	I_OutletAirFilterPressureSwitch	R		0			Outlet air filter pressure switch (normally closed)
9111	I_InletAirFilterPressureSwitch	R		0			Inlet air filter pressure switch (normally closed)

Modbus	Variable	Type	UM	Default	Min	Max	Description
9112	I_SmokeAlarm	R		0			
9113	I_ElectricHeaterThermal	R		0			Electric heater thermal protection (normally closed)
9120	HR_RelativeHumidityProbeEnabled	R		0			Relative humidity probe enabled
9121	HR_EnableDehumidification	R		0			Enable dehumidification
9123	HR_DehumidificationActive	R		0			Dehumidification On/Off status
9130	VOC_Enabled	R		0			VOC/CO2 probe enabled
9140	FREE_FreeCoolingEnabled	R		0			Free-cooling enabled
9141	FREE_FreeHeatingEnabled	R		0			Free-heating enabled
9150	DAMP_Level	R	%	0			External dampers opening level [%]
9151	DAMP_RecirculationDamperEnabled	R		0			Recirculation damper enabled
9160	FAN_OutletFanSpeedSetpoint	R	%	0			Outlet fan speed setpoint [%]
9161	FAN_OutletFanPressureSetpoint	R	Pa	0			Outlet fan pressure setpoint [Pa]
9162	FAN_InletFanSpeedSetpoint	R	%	0			Inlet fan speed setpoint [%]
9163	FAN_InletFanPressureSetpoint	R	Pa	0			Inlet fan pressure setpoint [Pa]
9164	FAN_CommAlarm	R		0			Communication Alarm
9165	FAN_OutletFanEnabled	R		0			Outlet fan enabled
9166	FAN_InletFanEnabled	R		0			Inlet fan enabled
9167	FAN_OutletFanPressure	R	Pa	0			Outlet fan pressure
9168	FAN_OutletFanInverterSpeed	R	%	0			Outlet fan inverter speed
9169	FAN_InletFanPressure	R	Pa	0			Inlet fan pressure
9170	FAN_InletFanInverterSpeed	R	%	0			Inlet fan inverter speed
9192	HRU_Level	R	%	0			Heat-recovery unit level [%]
9212	MVALV_Level	R	%	0			Mixing valve opening level
9221	CVALV_Level	R	%	0			Cooling valve opening level
9232	HVALV_Level	R	%	0			Heating valve opening level
9241	ELEC_Role	R		0			Electric heater role; given the current hardware configuration and unit state/mode
9245	ELEC_Out1	R		0			Electric heater 1st digital output
9246	ELEC_Out2	R		0			Electric heater 2nd digital output
9247	ELEC_Level	R		0			Electric heater level (number of active steps)
9248	ELEC_ThermalProtectionEnabled	R		0			Electric heater thermal protection enabled
9250	PUMP_State	R		0			Water pump On/Off state
9260	I_OutletAirTemperature	R	°C	0			Outlet air temperature
9261	I_AntifreezeTemperature	R	°C	0			Antifreeze temperature
9262	I_InletAirTemperature	R	°C	0			Inlet air temperature
9263	I_ExternalTemperature	R	°C	0			External temperature
9264	I_RoomRelativeHumidity	R	%	0			Room relative humidity
9265	I_RoomAirQuality	R	%	0			Room air quality (VOC/CO2)
9270	NIGHT_Active	R		0			Night function On/Off status
9271	NIGHT_DigitalInput	R		0			Remote Night function request (from digital input)
9272	NIGHT_TimeEvents	R		0			Night function request from time events management
9273	NIGHT_Enabled	R		0			Night function enabled
9274	NIGHT_KeyboardRequest	W		0			Night function request (from keyboard/network)
9280	INFO_AppVersion	R		*****			Application version
9290	TR_OutletAirTemperaturePowerReduction	R	%	0			Actuators' power reduction due to limitations on outlet air temperature
9291	TR_LowOutletAirTemperaturePowerReduction	R	%	0			Actuators' power reduction due to low outlet air temperature
9292	TR_HighOutletAirTemperaturePowerReduction	R	%	0			Actuators' power reduction due to high outlet air temperature
9300	AL_OutletAirFilterPressureSwitchEnabled	R		0			Outlet air filter pressure switch enabled
9301	AL_InletAirFilterPressureSwitchEnabled	R		0			Inlet air filter pressure switch enabled
9302	AL_AntifreezeTemperatureProbeEnabled	R		0			Antifreeze temperature probe enabled

Modbus	Variable	Type	UM	Default	Min	Max	Description
16390	SYS_SelectConfiguration	W		12			Hardware selection: C=Cold Water; H=Hot Water; M=Mixed; E=Electric
16430	TE00_EnableTimeEvents	W		0			Enable time events
16431	TE01_TimeProfileMonday	W		0			Time events profile on Monday
16432	TE02_TimeProfileTuesday	W		0			Time events profile on Tuesday
16433	TE03_TimeProfileWednesday	W		0			Time events profile on Wednesday
16434	TE04_TimeProfileThursday	W		0			Time events profile on Thursday
16435	TE05_TimeProfileFriday	W		0			Time events profile on Friday
16436	TE06_TimeProfileSaturday	W		1			Time events profile on Saturday
16437	TE07_TimeProfileSunday	W		4			Time events profile on Sunday
16438	TE10_TimeProfile1Event1	W		480	0	1439	Time of event #1 of profile #1
16439	TE11_ModeProfile1Event1	W		1			Mode of event #1 of profile #1
16440	TE12_TimeProfile1Event2	W		720	0	1439	Time of event #2 of profile #1
16441	TE13_ModeProfile1Event2	W		2			Mode of event #2 of profile #1
16442	TE14_TimeProfile1Event3	W		840	0	1439	Time of event #3 of profile #1
16443	TE15_ModeProfile1Event3	W		1			Mode of event #3 of profile #1
16444	TE16_TimeProfile1Event4	W		1080	0	1439	Time of event #4 of profile #1
16445	TE17_ModeProfile1Event4	W		0			Mode of event #4 of profile #1
16446	TE20_TimeProfile2Event1	W		480	0	1439	Time of event #1 of profile #2
16447	TE21_ModeProfile2Event1	W		1			Mode of event #1 of profile #2
16448	TE22_TimeProfile2Event2	W		720	0	1439	Time of event #2 of profile #2
16449	TE23_ModeProfile2Event2	W		0			Mode of event #2 of profile #2
16450	TE24_TimeProfile2Event3	W		840	0	1439	Time of event #3 of profile #2
16451	TE25_ModeProfile2Event3	W		1			Mode of event #3 of profile #2
16452	TE26_TimeProfile2Event4	W		1080	0	1439	Time of event #4 of profile #2
16453	TE27_ModeProfile2Event4	W		0			Mode of event #4 of profile #2
16454	TE30_TimeProfile3Event1	W		480	0	1439	Time of event #1 of profile #3
16455	TE31_ModeProfile3Event1	W		1			Mode of event #1 of profile #3
16456	TE32_TimeProfile3Event2	W		1080	0	1439	Time of event #2 of profile #3
16457	TE33_ModeProfile3Event2	W		0			Mode of event #2 of profile #3
16470	ST_Keyboard	W		0			Local On/Off state (from keyboard)
16481	ECO_EnableDigitalInput	W		0			Economy digital input enabled
16482	ECO_Keyboard	W		0			Local Comfort/Economy mode (from keyboard/network)
16490	MOD_Keyboard	W		0			Local mode (COOL, HEAT or AUTO)
16491	MOD_EnableDigitalInput	W		0			Cool/heat mode digital input enabled
16492	MOD_ChangeOverProbeSelection	W		0			Automatic change-over probe selection
16493	MOD_ChangeOverDifferentialCool	W	°C	0	255	255	Differential for automatic change-over in COOL
16494	MOD_ChangeOverDifferentialHeat	W	°C	0	255	255	Differential for automatic change-over in HEAT
16495	MOD_ChangeOverExternalSetpoint	W	°C	150	500	999	External temperature setpoint for automatic change-over
16496	MOD_ChangeOverExternalDifferential	W	°C	50	1	255	External temperature differential for automatic change-over
16500	SP01_T_MinSetpoint	W	°C	50	500	18.00	Minimum temperature control setpoint
16501	SP02_T_MaxSetpoint	W	°C	350	3.00	999	Maximum temperature control setpoint
16502	SP10_T_CoolingSetpoint	W	°C	6000.00.00	20.00	27.00	Setpoint in cooling mode (comfort)
16503	SP11_T_CoolingSetpointEco	W	°C	0.00	25.00	35.00	Setpoint in cooling mode (economy)
16504	SP20_T_HeatingSetpoint	W	°C	4800.00.00	18.00	25.00	Setpoint in heating mode (comfort)
16505	SP21_T_HeatingSetpointEco	W	°C	0.00	5.00	20.00	Setpoint in heating mode (economy)
16506	ds00_EnableDynamicSetpoint	W		0.00			Enable dynamic setpoint
16507	ds01_BandDynamicDifferentialCool	W	°C	15	1	255	Proportional band in cooling mode for dynamic differential
16508	ds02_BandDynamicDifferentialHeat	W	°C	15	1	255	Proportional band in heating mode for dynamic differential
16509	ds03_DynamicDifferentialCool	W	°C	50	500	999	Max offset setpoint in cooling mode from dynamic setpoint

Modbus	Variable	Type	UM	Default	Min	Max	Description
16510	ds04_DynamicDifferentialHeat	W	°C	-50	500	999	Max offset setpoint in heating mode from dynamic setpoint
16511	ds05_SetpointDynamicDifferentialCool	W	°C	370	8.00	999	Setpoint in cooling mode for dynamic differential
16512	ds06_SetpointDynamicDifferentialHeat	W	°C	0.00	500	37.00	Setpoint in heating mode for dynamic differential
16513	SP31_RH_MinSetpoint	W	%R.H.	30	24.00	50	Minimum relative humidity setpoint
16514	SP32_RH_MaxSetpoint	W	%R.H.	70	55	100	Maximum relative humidity setpoint
16515	SP40_RH_DehumidificationSetpoint	W	%R.H.	50	30	55	Relative humidity setpoint in dehumidification (comfort)
16516	SP41_RH_DehumidificationSetpointEco	W	%R.H.	55	50	70	Relative humidity setpoint in dehumidification (eco)
16540	AL_SetpointAntifreeze	W	°C	50			Setpoint for antifreeze control
16541	AL_HysteresisAntifreeze	W	°C	20			Hysteresis width for antifreeze control
16542	AL_SmokeAlarmConfiguration	W		0			Smoke alarm management configuration
16543	AL_OutletAirFilterPressureSwitchDelay	W	s	60			Outlet air filter pressure switch alarm delay
16545	AL_InletAirFilterPressureSwitchDelay	W	s	60			Inlet air filter pressure switch alarm delay
16547	AL_EnableOutletAirFilterPressureSwitch	W		1			Enable outlet air filter pressure switch
16548	AL_EnableInletAirFilterPressureSwitch	W		1			Enable inlet air filter pressure switch
16549	AL_EnableAntifreezeTemperatureProbe	W		1			Enable antifreeze temperature probe
16550	TR_RegulationProbeSelection	W		0			Select thermoregulation probe
16551	TR_TemperatureLowerLimit	W	°C	180	500	25.00	Outlet air temperature lower limit
16552	TR_TemperatureLowerLimitBand	W	°C	15	24.00	255	Band for outlet air temperature lower limit
16553	TR_TemperatureUpperLimit	W	°C	500		999	Outlet air temperature upper limit
16554	TR_TemperatureUpperLimitBand	W	°C	15	1	255	Band for outlet air temperature upper limit
16560	HR_EnableRelativeHumidityControl	W		0			Enable relative humidity control
16561	HR_PostheatingTemperatureSetpoint	W	°C	250	500	999	Post-heating temperature setpoint in dehumidification
16562	HR_Priority	W	°C	0			Priority between temperature and humidity objectives in Cool mode (cooling vs. dehumidification)
16563	HR_DehumidificationDifferential	W	°C	15	1	255	Temperature differential that disables dehumidification (w.r.t. temperature setpoint in Cool mode)
16564	HR_RegulationDifferential	W	%R.H.	5	1	25	Regulation differential in dehumidification
16570	VOC_Enable	W		0			VOC/CO2 probe enabled
16571	VOC_Setpoint	W	%	40	0	100	Air quality setpoint
16572	VOC_RegulationBand	W	%	20	1	99	Air quality regulation band
16573	VOC_DiffRelMin	W	%	10	1	50	Relative differential (with respect to regulation band) to switch to Economy mode
16574	VOC_DiffRelMax	W	%	50	10	99	Relative differential (with respect to regulation band) to switch to Comfort mode
16580	FREE_EnableFreeCooling	W		1			Enable freecooling
16581	FREE_EnableFreeHeating	W		1			Enable freeheating
16582	FREE_MinExternalTemperature	W	°C	120	500	999	Minimum external temperature for freecooling (below this temperature freecooling is not enabled)
16583	FREE_MinExternalTemperatureDifferential	W	°C	10	1	50	Minimum external temperature for freecooling hysteresis width
16584	FREE_FreeCoolingDifferential	W	°C	50	1	255	Temperature differential to enable freecooling (between regulation and external temperature)
16585	FREE_FreeCoolingDifferentialHysteresis	W	°C	10	1	50	Freecooling temperature differential hysteresis width
16586	FREE_FreeHeatingDifferential	W	°C	50	1	255	Temperature differential to enable freeheating (between external and regulation temperature)
16587	FREE_FreeHeatingDifferentialHysteresis	W	°C	10	1	50	Freeheating temperature differential hysteresis width
16600	DAMP_EnableRecirculationDamper	W		0			Enable recirculation damper
16601	DAMP_ExternalDamperMinLevel	W	%	300	0	1000	External damper minimum level
16602	DAMP_WarmUpTimeout	W	s	60			Warm-up timeout
16611	FAN_OutletFanMaximumSpeed	W	%	100	60	100	Outlet fan maximum inverter speed [%]
16612	FAN_InletFanMaximumSpeed	W	%	100	60	100	Inlet fan maximum inverter speed [%]
16613	FAN_OutletFanSpeedSetpointComfort	W	%	60	40	100	Outlet fan inverter speed setpoint [%] in Comfort mode
16614	FAN_OutletFanSpeedSetpointEconomy	W	%	40	20	60	Outlet fan inverter speed setpoint [%] in Economy mode
16615	FAN_InletFanSpeedSetpointComfort	W	%	60	40	100	Inlet fan inverter speed setpoint [%] in Comfort mode
16616	FAN_InletFanSpeedSetpointEconomy	W	%	40	20	60	Inlet fan inverter speed setpoint [%] in Economy mode
16617	FAN_OutletFanPressureSetpointComfort	W	Pa	1500	800	2500	Outlet fan pressure setpoint [Pa] in Comfort mode
16618	FAN_OutletFanPressureSetpointEconomy	W	Pa	800	10	1500	Outlet fan pressure setpoint [Pa] in Economy mode

Modbus	Variable	Type	UM	Default	Min	Max	Description
16619	FAN_InletFanPressureSetpointComfort	W	Pa	1500	800	2500	Inlet fan pressure setpoint [Pa] in Comfort mode
16620	FAN_InletFanPressureSetpointEconomy	W	Pa	800	10	1500	Inlet fan pressure setpoint [Pa] in Comfort mode
16621	FAN_IOcfg	W		0			IO allocation (outlet vs inlet)
16622	FAN_SelectRegulationType	W		1			Regulation Type
16623	FAN_MinPress	W	Pa	10	1	2500	Low Pressure Setpoint
16624	FAN_MinPressBypass	W	Sec	60	1	60	Low Pressure Bypass
16632	FAN_OutletFanOnStartDelay	W	s	10			Outlet fan on-start delay
16634	FAN_InletFanOnStartDelay	W	s	10			Inlet fan on-start delay
16640	HRU_RegulationDifferential	W	°C	15	1	255	Heat recovery unit differential (with respect to thermoregulation setpoint)
16641	HRU_TypeSelection	W		1			Heat recovery unit type
16650	MVALV_ProportionalBand	W	°C	15	1	255	Mixing valve proportional band
16651	MVALV_NeutralZone	W	°C	5	1	255	Mixing valve neutral zone
16652	MVALV_IntegralTime	W	s	100			Mixing valve integral time
16660	CVALV_ProportionalBand	W	°C	15	1	255	Cooling valve proportional band
16661	CVALV_NeutralZone	W	°C	5	1	255	Cooling valve neutral zone
16662	CVALV_IntegralTime	W	s	100			Cooling valve integral time
16670	HVALV_HeatingProportionalBand	W	°C	15	1	255	Heating valve proportional band (in heating)
16671	HVALV_HeatingNeutralZone	W	°C	5	1	255	Heating valve neutral zone (in heating)
16672	HVALV_IntegralTime	W	s	100			Heating valve integral time
16673	HVALV_PostHeatingProportionalBand	W	°C	15	1	255	Heating valve proportional band (in post-heating)
16674	HVALV_PostHeatingNeutralZone	W	°C	5	1	255	Heating valve neutral zone (in post-heating)
16680	ELEC_HeatingProportionalBand	W	°C	15	1	255	Electric heater proportional band (in heating)
16681	ELEC_HeatingNeutralZone	W	°C	5	1	255	Electric heater neutral zone (in heating)
16682	ELEC_PostHeatingProportionalBand	W	°C	15	1	255	Electric heater proportional band (in post-heating)
16683	ELEC_PostHeatingNeutralZone	W	°C	5	1	255	Electric heater neutral zone (in post-heating)
16684	ELEC_EnableThermalProtection	W		1			Enable electric heater thermal protection
16690	PUMP_MinTimeOn	W	s	120			Water pump minimum time on
16700	NIGHT_EnableDigitalInput	W		0			Night digital input enabled
16702	NIGHT_MinTimeOn	W	min	15			Night function minimum time on [min]
16704	NIGHT_Timeout	W	h	1			Night function timeout [h]
16710	KBD_EnLockFunction	W		1			Enable keyboard lock
16800	TW00_EnableYearEvents	W		1			Enable year events
16801	TW01_EventProfile01	W		0			Year events profile 1
16802	TW02_EventProfile02	W		0			Year events profile 2
16803	TW03_EventProfile03	W		0			Year events profile 3
16804	TW04_EventProfile04	W		0			Year events profile 4
16805	TW05_EventProfile05	W		0			Year events profile 5
16806	TW06_EventProfile06	W		1			Year events profile 6
16807	TW07_EventProfile07	W		4			Year events profile 7
16808	TW08_EventProfile08	W		0			Year events profile 8
16809	TW09_EventProfile09	W		0			Year events profile 9
16810	TW10_EventProfile10	W		0			Year events profile 10
16811	TW11_EventProfile11	W		0			Year events profile 11
16812	TW12_EventProfile12	W		0			Year events profile 12
16813	TW13_EventProfile13	W		1			Year events profile 13
16814	TW14_EventProfile14	W		4			Year events profile 14
16815	TW15_EventProfile15	W		4			Year events profile 15
16830	TW16_EnEvent01	W		0			Enable Year events 1
16831	TW17_EnEvent02	W		0			Enable Year events 2

Modbus	Variable	Type	UM	Default	Min	Max	Description
16832	TW18_EnEvent03	W		0			Enable Year events 3
16833	TW19_EnEvent04	W		0			Enable Year events 4
16834	TW20_EnEvent05	W		0			Enable Year events 5
16835	TW21_EnEvent06	W		0			Enable Year events 6
16836	TW22_EnEvent07	W		0			Enable Year events 7
16837	TW23_EnEvent08	W		0			Enable Year events 8
16838	TW24_EnEvent09	W		0			Enable Year events 9
16839	TW25_EnEvent10	W		0			Enable Year events 10
16840	TW26_EnEvent11	W		0			Enable Year events 11
16841	TW27_EnEvent12	W		0			Enable Year events 12
16842	TW28_EnEvent13	W		0			Enable Year events 13
16843	TW29_EnEvent14	W		0			Enable Year events 14
16844	TW30_EnEvent15	W		0			Enable Year events 15
16860	TW31_EventDDStart01	W	Day	1	1	31	Start Day Year events 1
16861	TW32_EventDDStart02	W	Day	1	1	31	Start Day Year events 1
16862	TW33_EventDDStart03	W	Day	1	1	31	Start Day Year events 1
16863	TW34_EventDDStart04	W	Day	1	1	31	Start Day Year events 1
16864	TW35_EventDDStart05	W	Day	1	1	31	Start Day Year events 1
16865	TW36_EventDDStart06	W	Day	1	1	31	Start Day Year events 1
16866	TW37_EventDDStart07	W	Day	1	1	31	Start Day Year events 1
16867	TW38_EventDDStart08	W	Day	1	1	31	Start Day Year events 1
16868	TW39_EventDDStart09	W	Day	1	1	31	Start Day Year events 1
16869	TW40_EventDDStart10	W	Day	1	1	31	Start Day Year events 1
16870	TW41_EventDDStart11	W	Day	1	1	31	Start Day Year events 1
16871	TW42_EventDDStart12	W	Day	1	1	31	Start Day Year events 1
16872	TW43_EventDDStart13	W	Day	1	1	31	Start Day Year events 1
16873	TW44_EventDDStart14	W	Day	1	1	31	Start Day Year events 1
16874	TW45_EventDDStart15	W	Day	1	1	31	Start Day Year events 1
16890	TW46_EventMMStart01	W	Day	1	1	12	Start Month Year events 1
16891	TW47_EventMMStart02	W	Day	1	1	12	Start Month Year events 1
16892	TW48_EventMMStart03	W	Day	1	1	12	Start Month Year events 1
16893	TW49_EventMMStart04	W	Day	1	1	12	Start Month Year events 1
16894	TW50_EventMMStart05	W	Day	1	1	12	Start Month Year events 1
16895	TW51_EventMMStart06	W	Day	1	1	12	Start Month Year events 1
16896	TW52_EventMMStart07	W	Day	1	1	12	Start Month Year events 1
16897	TW53_EventMMStart08	W	Day	1	1	12	Start Month Year events 1
16898	TW54_EventMMStart09	W	Day	1	1	12	Start Month Year events 1
16899	TW55_EventMMStart10	W	Day	1	1	12	Start Month Year events 1
16900	TW56_EventMMStart11	W	Day	1	1	12	Start Month Year events 1
16901	TW57_EventMMStart12	W	Day	1	1	12	Start Month Year events 1
16902	TW58_EventMMStart13	W	Day	1	1	12	Start Month Year events 1
16903	TW59_EventMMStart14	W	Day	1	1	12	Start Month Year events 1
16904	TW60_EventMMStart15	W	Day	1	1	12	Start Month Year events 1
16920	TW61_EventDDStop01	W	Day	1	1	31	Stop Day Year events 1
16921	TW62_EventDDStop02	W	Day	1	1	31	Stop Day Year events 1
16922	TW63_EventDDStop03	W	Day	1	1	31	Stop Day Year events 1
16923	TW64_EventDDStop04	W	Day	1	1	31	Stop Day Year events 1
16924	TW65_EventDDStop05	W	Day	1	1	31	Stop Day Year events 1
16925	TW66_EventDDStop06	W	Day	1	1	31	Stop Day Year events 1

Modbus	Variable	Type	UM	Default	Min	Max	Description
16926	TW67_EventDDStop07	W	Day	1	1	31	Stop Day Year events 1
16927	TW68_EventDDStop08	W	Day	1	1	31	Stop Day Year events 1
16928	TW69_EventDDStop09	W	Day	1	1	31	Stop Day Year events 1
16929	TW70_EventDDStop10	W	Day	1	1	31	Stop Day Year events 1
16930	TW71_EventDDStop11	W	Day	1	1	31	Stop Day Year events 1
16931	TW72_EventDDStop12	W	Day	1	1	31	Stop Day Year events 1
16932	TW73_EventDDStop13	W	Day	1	1	31	Stop Day Year events 1
16933	TW74_EventDDStop14	W	Day	1	1	31	Stop Day Year events 1
16934	TW75_EventDDStop15	W	Day	1	1	31	Stop Day Year events 1
16950	TW76_EventMMStop01	W	Day	1	1	12	Stop Month Year events 1
16951	TW77_EventMMStop02	W	Day	1	1	12	Stop Month Year events 1
16952	TW78_EventMMStop03	W	Day	1	1	12	Stop Month Year events 1
16953	TW79_EventMMStop04	W	Day	1	1	12	Stop Month Year events 1
16954	TW80_EventMMStop05	W	Day	1	1	12	Stop Month Year events 1
16955	TW81_EventMMStop06	W	Day	1	1	12	Stop Month Year events 1
16956	TW82_EventMMStop07	W	Day	1	1	12	Stop Month Year events 1
16957	TW83_EventMMStop08	W	Day	1	1	12	Stop Month Year events 1
16958	TW84_EventMMStop09	W	Day	1	1	12	Stop Month Year events 1
16959	TW85_EventMMStop10	W	Day	1	1	12	Stop Month Year events 1
16960	TW86_EventMMStop11	W	Day	1	1	12	Stop Month Year events 1
16961	TW87_EventMMStop12	W	Day	1	1	12	Stop Month Year events 1
16962	TW88_EventMMStop13	W	Day	1	1	12	Stop Month Year events 1
16963	TW89_EventMMStop14	W	Day	1	1	12	Stop Month Year events 1
16964	TW90_EventMMStop15	W	Day	1	1	12	Start Day Year events 1



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I dati tecnici riportati sulla seguente documentazione non sono impegnativi. L'Aermec si riserva la facoltà di apportare in qualsiasi momento tutte le modifiche ritenute necessarie per il miglioramento del prodotto
