AERMEC

User manual

BMS
RTD

EN

CE

6193627_00 18.07

TRANSLATION FROM ORIGINAL

Dear Customer,
Thank you for choosing an AERMEC product. This product is the result of many years of experience and in-depth engineering research, and it is built using top quality materials and advanced technologies.
In addition, the applied mark guarantees that our appliances fully comply with the safety requirements defined by the applicable product's rules. We constantly monitor the quality level, and as a result AERMEC products are synonymous with Safety, Quality, and Reliability.

Aermec reserves the right to make all modification deemed necessary for improving the product at any time with any modification of technical data.

Thank you again.
AERMEC S.p.A

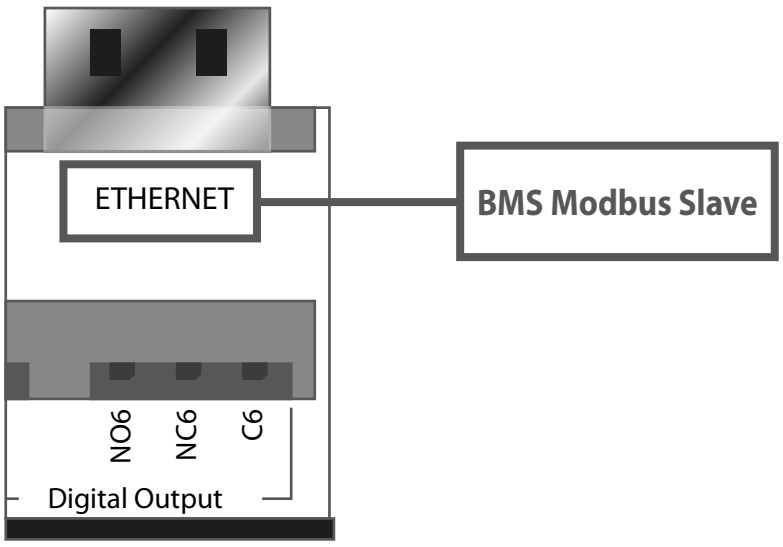
1. INDEX

2. REMOTE PANEL KEY ICONS (PRGD1 OR PRGDX IN EMULATION MODE)

 	**Alarm**	Access to the alarm menu Flashing signal alarm present but resettable. Permanent signal alarm present but not resettable.	
 	**Prg**	Access to the unit/machine menu	
	**Esc**	Exit from the unit/machine menu without confirmation of the changes Exit from the short menu Exit from the settings without confirmation of the changes	
 	**Up/Down**	Scrolling of unit/machine menu and settings Short menu scrolling	
	**Enter**	Confirm unit/machine menu input Confirm short menu input Confirm settings	

3. TCP/IP MODBUS COMMUNICATION SETTINGS

3.1. Communication port



The BMS communication cable must be connected to the Ethernet port identified on the figure as "BMS Modbus Slave"

3.2. PRGD1 emulation from PRGDX

From the home screen of the touch terminal, press the "=" icon and enter pw 0020 and then press OK to access the "PGD1 Emulation" mode (click on the text). Now all the screens will be available as if one were using the standard terminal.

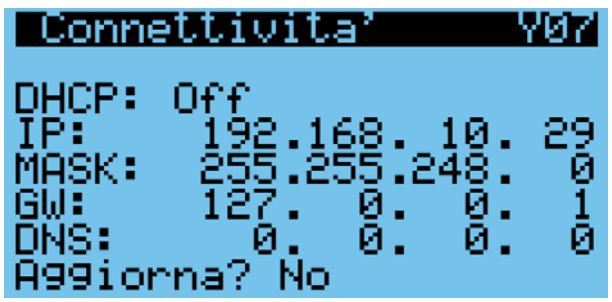
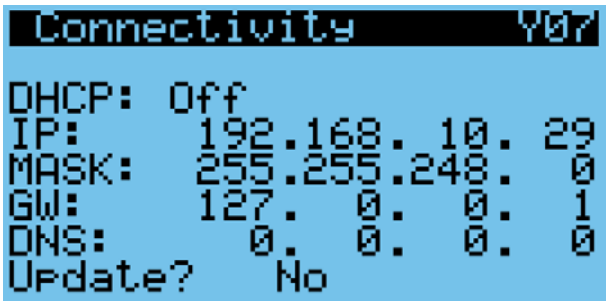
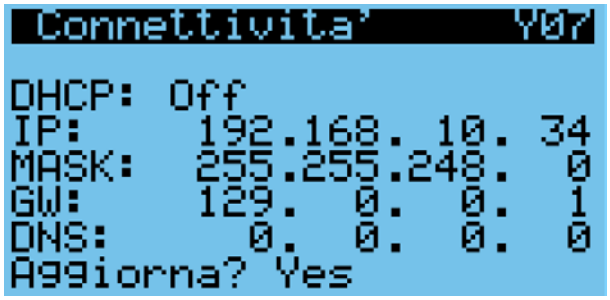
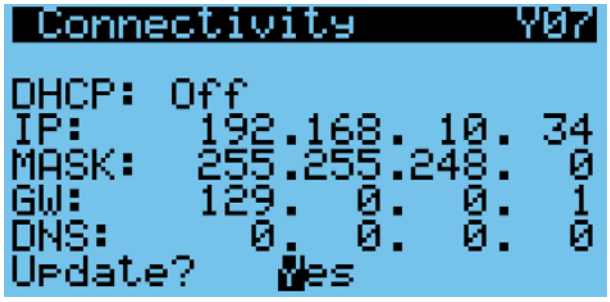
3.3. PRGD1 Login

The password to be set to access the menu is 0020.
To access the menu, press the Prg key, use the Up/Down keys to modify/change/edit the value and confirm by pressing the Enter key.
Once the Login password has been entered

<table>
<tr><td>Login</td><td> 
</td><td> 
</td></tr>
<tr><td colspan="3">you can access the menu</td></tr>
<tr><td>Menu</td><td> 
</td><td> 
</td></tr>
<tr><td colspan="3">otherwise the following message will be displayed</td></tr>
<tr><td>Login</td><td> 
</td><td> 
</td></tr>
</table>

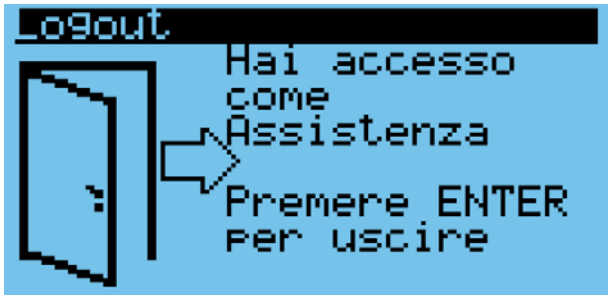
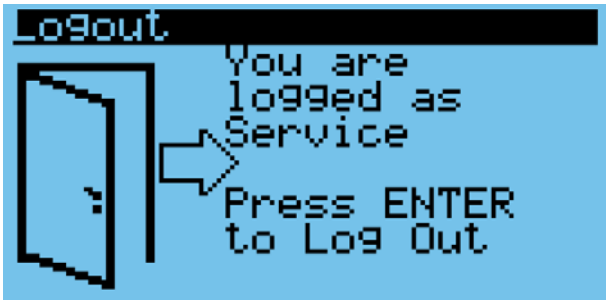
3.4. PRGD1 parameter setting

Once accessed as Assistance, scroll the menu using the Up/Down key up to the Y menu and access by pressing the Enter key.
Scroll the menu again using the Up/Down key up to the Y07 mask.
Once in the screen, it will be possible to switch to the edit mode by pressing the Enter key.
Press the Enter key to switch between parameters.

Y07		
Once the parameter settings has been completed, confirm by setting "Update? Yes".		
Y07		

3.5. Logout

To Logout, scroll to the Z menu using the Up/Down key and access by pressing Enter

Logout		
Pressing the Enter key again exits the profile to automatically go back to the home screen		

3.6. PRGD1 emulation logout

Once the configuration is completed, exit the emulation mode, press the "=" icon again and then on the 

Level	Types	Index	Size	Variable Name	Descrizione Variabile	Variable Description	DataType	Direction
Customer	**Coil**	**228**	1	Scheduler_OnOffUnit.BMS_OnOff	On/Off da BMS	On/off request by BMS	Bool	ReadWrite
Customer	**DiscreteInput**	**3**	1	UnitCoolHeatMode	FALSE: raffrescamento; TRUE: riscaldamento;	FALSE: cooling; TRUE: heating;	Bool	Read
Customer	**DiscreteInput**	**13**	1	Scheduler_OnOffUnit.CurrSchedAct	Funzionamento da eventi orari attivo	Scheduler is active	Bool	ReadWrite
Customer	**DiscreteInput**	**60**	1	SrsAlrm.Val	DI Allarme Grave attivo	Serious alarm - Value	Bool	Read
Customer	**DiscreteInput**	**65**	1	AuxOut.Val	DO Ausiliaria batteria preriscaldo attiva	Auxiliary output - Value	Bool	Read
Customer	**DiscreteInput**	**1000**	1	AI_SupplyTempPrb.Active	A01 - Sonda temperatura mandata non funzionante - Allarme	A01 - Supply temperature probe not working - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1001**	1	AI_SuctP_Prb.Active	A02 - Sonda pressione aspirazione non funzionante - Allarme	A02 - Suction pressure probe not working - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1002**	1	AI_DscgTemp_Prb.Active	A03 - Sonda temperatura di scarico non funzionante - Allarme	A03 - Discharge temperature probe not working - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1003**	1	AI_GenericAlrmByDin.Active	A04 - Allarme generico da ingresso digitale	A04 - Generic alarm from digital input - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1005**	1	AI_SupplyFanOvld.Active	A06 - Ventilatore mandata sovraccarico - Allarme	A06 - Supply fan overload - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1006**	1	AI_RetFanOvld.Active	A07 - Ventilatore espulsione sovraccarico - Allarme	A07 - Return fan overload - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1007**	1	AI_FansOvld.Active	A08 - Ventilatori sovraccarico - Allarme	A08 - Fans overload - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1008**	1	AI_CompOvld.Active	A09 - Compressore sovraccarico - Allarme	A09 - Compressor overload - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1009**	1	AI_HiP_Sw.Active	A10 - Pressostato alta pressione attivo - Allarme	A10 - High discharge pressure switch - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1014**	1	AI_AFreeze.Active	A15 - Antigelo - Allarme	A15 - Antifreeze alarm - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1015**	1	AI_LowSH_EVD_Emb.Active	A16 - EVD - Basso SH - Allarme	A16 - EVD - Low SH - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1016**	1	AI_EEV_MotErr.Active	A17 - EVD - Errore motore - Allarme	A17 - EVD - Motor error - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1017**	1	AI_SettingOutOfBound_EVD_Emb.Active	A18 - EVD - Allarme	A18 - EVD - Setting out of bound - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1018**	1	AI_RangeErr_EVD_Emb.Active	A19 - EVD - Allarme	A19 - EVD - Settings range error - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1019**	1	AI_InvOffline.Active	A20 - Inverter - Offline - Allarme	A20 - Inverter - Offline - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1020**	1	AI_Inv01_OverA.Active	A21 - Inverter - Sovracorrente (01) - Allarme	A21 - Inverter - Drive overcurrent (01) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1021**	1	AI_Inv02_MotOvld.Active	A22 - Inverter - Motore sovraccarico (02) - Allarme	A22 - Inverter - Motor overload (02) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1022**	1	AI_Inv03_DC_BusOverV.Active	A23 - Inverter - DC Bus sovratensione (03) - Allarme	A23 - Inverter - DC Bus overvoltage (03) - Alarm status	Bool	Read

Level	Types	Index	Size	Variable Name	Descrizione Variabile	Variable Description	DataType	Direction
Customer	**DiscreteInput**	**1023**	1	AI_Inv04_DC_BusUnderV.Active	A24 - Inverter - DC bus sottotensione (04) - Allarme	A24 - Inverter - DC bus undervoltage (04) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1024**	1	AI_Inv05_OverTemp.Active	A25 - Inverter - Sovratemperatura (05) - Allarme	A25 - Inverter - Drive overtemperature (05) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1025**	1	AI_Inv06_DrvUnderTemp.Active	A26 - Inverter - Sottotemperatura (06) - Allarme	A26 - Inverter - Drive undertemperature (06) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1026**	1	AI_Inv07_HW_OverA.Active	A27 - Inverter - Sovracorrente HW(07) - Allarme	A27 - Inverter - HW overcurrent HW(07) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1027**	1	AI_Inv08_MotOverTemp.Active	A28 - Inverter - PTC motore sovratemperatura (08) - Allarme	A28 - Inverter - PTC motor overtemperature (08) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1028**	1	AI_Inv09_OutputFault.Active	A29 - Inverter - IGBT modulo (09) - Allarme	A29 - Inverter - IGBT module error (09) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1029**	1	AI_Inv10_FlashDataErr.Active	A30 - Inverter - CPU (10) - Allarme	A30 - Inverter - CPU error (10) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1030**	1	AI_Inv11_ParamDef.Active	A31 - Inverter - Parametri di default (11) - Allarme	A31 - Inverter - Parameter default (11) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1031**	1	AI_Inv12_DC_RippTooLarge.Active	A32 - Inverter - DC ondulazione (12) - Allarme	A32 - Inverter - DC bus ripple (12) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1032**	1	AI_Inv13_MB_CommFault.Active	A33 - Inverter - Timeout comunicazione seriale (13) - Allarme	A33 - Inverter - Data communication fault (13) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1033**	1	AI_Inv14_DrvThermistorFault.Active	A34 - Inverter - Termistore interno guasto (14) - Allarme	A34 - Inverter - Drive thermistor fault (14) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1034**	1	AI_Inv15_AutotuneFault.Active	A35 - Inverter - Autotuning fallito (15) - Allarme	A35 - Inverter - Autotuning fault (15) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1035**	1	AI_Inv16_DrvDis.Active	A36 - Inverter - Drive disabilitato (16) - Allarme	A36 - Inverter - Drive disabled (16) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1036**	1	AI_Inv17_MotPhaseFault.Active	A37 - Inverter - Mancanza fase motore (17) - Allarme	A37 - Inverter - Motor phase fault (17) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1037**	1	AI_Inv18_FanFault.Active	A38 - Inverter - Ventilazione interna guasta (18) - Allarme	A38 - Inverter - Internal fan fault (18) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1038**	1	AI_Inv19_SpeedFault.Active	A39 - Inverter - Errore velocità (19) - Allarme	A39 - Inverter - Speed fault (19) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1039**	1	AI_Inv20_PFC_Failure.Active	A40 - Inverter - PFC errore (20) - Allarme	A40 - Inverter - PFC module error (20) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1040**	1	AI_Inv21_PFC_OverVolt.Active	A41 - Inverter - PFC sovratensione (21) - Allarme	A41 - Inverter - PFC overvoltage (21) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1041**	1	AI_Inv22_PFC_UnderVolt.Active	A42 - Inverter - PFC sottotensione (22) - Allarme	A42 - Inverter - PFC undervoltage (22) - Alarm status	Bool	Read

Level	Types	Index	Size	Variable Name	Descrizione Variabile	Variable Description	DataType	Direction
Customer	**DiscreteInput**	**1042**	1	AI_Inv23_STO_Survey1.Active	A43 - Inverter - STO errore (23) - Allarme	A43 - Inverter - STO detection error (23) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1043**	1	AI_Inv24_STO_Survey2.Active	A44 - Inverter - STO errore (24) - Allarme	A44 - Inverter - STO detection error (24) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1044**	1	AI_Inv25_GroundFault.Active	A45 - Inverter - Guasto di terra (25) - Allarme	A45 - Inverter - Ground fault (25) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1045**	1	AI_Inv26_ADC_ConvSync.Active	A46 - Inverter - ADC errore sincronizzazione conversione (26) - Allarme	A46 - Inverter - ADC conversion sync fault (26) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1046**	1	AI_Inv27_HW_Sync.Active	A47 - Inverter - Errore sincronizzazione (27) - Allarme	A47 - Inverter - HW sync fault (27) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1047**	1	AI_Inv28_DrvOvrld.Active	A48 - Inverter - Drive sovraccarico (28) - Allarme	A48 - Inverter - Drive overload (28) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1048**	1	AI_Inv29_uCSafe_DriveStop.Active	A49 - Inverter - Drive sovratemperatura (HW) (29) - Allarme	A49 - Inverter - Drive overtemperature (HW) (29) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1049**	1	AI_Inv99_UnexpectedStop.Active	A50 - Inverter - Stop inatteso (99) - Allarme	A50 - Inverter - Unexpected stop (99) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1050**	1	AI_StartFail_BLDC1.Active	A51 - BLDC - Partenza fallita - Allarme	A51 - BLDC - Starting failure - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1052**	1	AI_retain.Active	A53 - Elevate scritture in memoria permanente - Allarme	A53 - High number of retain memory writings - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1053**	1	AI_Err_retain_write.Active	A54 - Errore scrittura memoria permanente - Allarme	A54 - Error in retain memory writings - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1055**	1	AI_ExtTempPrb.Active	A56 - Sonda temperatura esterna non funzionante - Allarme	A56 - External temperature probe broken not working - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1056**	1	AI_RetAir_CO2_Lev_Prb.Active	A57 - Sonda CO2 non funzionante - Allarme	A57 - CO2 air quality probe not working - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1059**	1	AI_DscgP_Prb.Active	A60 - Sonda scarico non funzionante - Allarme	A60 - Discharge pressure probe not working - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1060**	1	AI_SuctTemp_Prb.Active	A61 - Temperatura aspirazione non funzionante - Allarme	A61 - Suction temperature probe not working - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1062**	1	AI_LowSupplyTemp.Active	A63 - Bassa temperatura mandata - Warning	A63 - Low supply temperature - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1063**	1	AI_WarmUpFailWarn.Active	A64 - Mancato preriscaldamento - Warning	A64 - Warm up failure warning - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1064**	1	AI_WarmUpFailAlrm.Active	A65 - Mancato preriscaldamento - Allarme	A65 - Warm up failure alarm - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1065**	1	AI_DfrEvapMaxT.Active	A66 - Sbrinamento evaporatore finito per tempo massimo - Allarme	A66 - Evaporator defrost ended by maximum time - Alarm status	Bool	Read

Level	Types	Index	Size	Variable Name	Descrizione Variabile	Variable Description	DataType	Direction
Customer	**DiscreteInput**	**1067**	1	AI_SupplyAirFlwSwWarn.Active	A68 - Flusso aria ventilatore mandata - Warning	A68 - Supply air flow warning - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1068**	1	AI_RetAirFlwSwWarn.Active	A69 - Flusso aria ventilatore espulsione - Warning	A69 - Return air flow warning - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1069**	1	AI_AirFlwSwWarn.Active	A70 - Flusso aria - Warning	A70 - Air flow warning - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1070**	1	AI_AFreezeWarn.Active	A71 - Antigelo - Warning	A71 - Antifreeze warning - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1073**	1	AI_SupplyFanWorkHrsWarn.Active	A74 - Richiesta manutenzione ventilatore mandata - Warning	A74 - Supply fan maintenance required - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1074**	1	AI_RetFanWorkHrsWarn.Active	A75 - Richiesta manutenzione ventilarore espulsione - Warning	A75 - Return fan maintenance required - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1077**	1	AI_DirtyFiltWorkHrsWarn.Active	A78 - Richiesta manutenzione filtri - Warning	A78 - Filters maintenance required - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1078**	1	AI_DirtyFiltByDin.Active	A79 - Filtri sporchi - Allarme	A79 - Dirty filters alarm - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1079**	1	AI_CompWorkHrsWarn.Active	A80 - Richiesta manutenzione compressore - Warning	A80 - Compressor maintenance required - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1080**	1	AI_HiRatioP_BLDC.Active	A81 - Inviluppo compressore - Alto rapporto di copressione - Allarme	A81 - Compressor envelope - High compression ratio - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1081**	1	AI_DscgHiP_BLDC.Active	A82 - Inviluppo compressore - Alta pressione di scarico - Allarme	A82 - Compressor envelope - High discharge pressure - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1082**	1	AI_HiCurr_BLDC.Active	A83 - Inviluppo compressore - Sovracorrente motore - Allarme	A83 - Compressor envelope - High motor current - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1083**	1	AI_SuctHiP_BLDC.Active	A84 - Inviluppo compressore - Alta pressione di aspirazione - Allarme	A84 - Compressor envelope - High suction pressure - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1084**	1	AI_LowRatioP_BLDC.Active	A85 - Inviluppo compressore - Basso rapporto di compressione - Allarme	A85 - Compressor envelope - Low compression ratio - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1085**	1	AI_LowDeltaP_BLDC.Active	A86 - Inviluppo compressore - Bassa pressione differenziale - Allarme	A86 - Compressor envelope - Low differential pressure - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1086**	1	AI_LowDscgP_BLDC.Active	A87 - Inviluppo compressore - Bassa pressione di scarico - Allarme	A87 - Compressor envelope - Low discharge pressure - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1087**	1	AI_LowSuctP_BLDC.Active	A88 - Inviluppo compressore - Bassa pressione di aspirazione - Allarme	A88 - Compressor envelope - Low suction pressure - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1088**	1	AI_HiDscgTemp_BLDC.Active	A89 - Inviluppo compressore - Alta temperatura di scarico - Allarme	A89 - Compressor envelope - High discharge temperature - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1089**	1	AI_LOP_EVD_Emb.Active	A90 - EVD - LOP - Allarme	A90 - EVD - LOP - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1090**	1	AI_MOP_EVD_Emb.Active	A91 - EVD - MOP - Allarme	A91 - EVD - MOP - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1091**	1	AI_HiCondTemp_EVD_Emb.Active	A92 - EVD - Alta temperatura di condensazione - Allarme	A92 - EVD - High condensing temperature - Alarm status	Bool	Read

Level	Types	Index	Size	Variable Name	Descrizione Variabile	Variable Description	DataType	Direction
Customer	**DiscreteInput**	**1092**	1	AI_LowSuctTemp_EVD_Emb.Active	A93 - EVD - Bassa temperatura di aspirazione - Allarme	A93 - EVD - Low suction temperature - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1093**	1	AI_EmergClos_EVD_Emb.Active	A94 - EVD - Chiusura di emergenza - Allarme	A94 - EVD - Emergency closing - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1094**	1	AI_DisStartDp_BLDC.Active	A95 - BLDC - Delta pressione maggiore di quanto consentivo all'avvio - Allarme	A95 - BLDC - Delta pressure greater than the allowable at startup - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1098**	1	AI_BMS_Offline.Active	A99 - BMS offline - Allarme	A99 - BMS offline - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1101**	1	AI_SupplyAirP_Prb.Active	A102 - Sonda pressione ventilatore mandata non funzionante - Allarme	A102 - Supply differential pressure probe not working - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1102**	1	AI_RetAirP_Prb.Active	A103 - Sonda pressione ventilatore espulsione non funzionante - Allarme	A103 - Return differential pressure probe not working - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1103**	1	AI_Selftuning_EVD_Emb.Active	A104 - EVD - Autotuning - Allarme	A104 - EVD - Selftuning alarm - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1114**	1	AI_Offline_EBM_SupplyFan.Active	A115 - Ventilatore mandata - Offline - Allarme	A115 - EBM supply fan - Offline - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1115**	1	AI_PhaseFault_EBM_SupplyFan.Active	A116 - Ventilatore mandata - Mancanza fase (PHA) - Allarme	A116 - EBM supply fan - Phase Failure (PHA) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1116**	1	AI_MotBlocked_EBM_SupplyFan.Active	A117 - Ventilatore mandata - Motore bloccato (BLK) - Allarme	A117 - EBM supply fan - Locked motor (BLK) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1117**	1	AI_MainsUnderV_EBM_SupplyFan.Active	A118 - Ventilatore mandata - Sottotensione di rete (UeLow) - Allarme	A118 - EBM supply fan - Mains undervoltage (UeLow) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1118**	1	AI_MainsOverV_EBM_SupplyFan.Active	A119 - Ventilatore mandata - Sovratensione di rete (UeHigh) - Allarme	A119 - EBM supply fan - Mains overvoltage (UeHigh) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1119**	1	AI_DClinkOverV_EBM_SupplyFan.Active	A120 - Ventilatore mandata - DC - link sovratensione (UzHigh) - Allarme	A120 - EBM supply fan - DC - link overvoltage (UzHigh) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1120**	1	AI_DClinkUnderV_EBM_SupplyFan.Active	A121 - Ventilatore mandata - DC - link sottotensione (UzLow) - Allarme	A121 - EBM supply fan - DC - link undervoltage (UzLow) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1121**	1	AI_MotSuperHeating_EBM_SupplyFan.Active	A122 - Ventilatore mandata - Surriscaldamento motore (TFM) - Allarme	A122 - EBM supply fan - Motor overheated (TFM) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1122**	1	AI_IntCircSuperHeat_EBM_SupplyFan.Active	A123 - Ventilatore mandata - Surriscaldamento elettronica interna (TFEI) - Allarme	A123 - EBM supply fan - Electronics interior overheated (TFEI) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1123**	1	AI_OutStageSuperHeat_EBM_SupplyFan. Active	A124 - Ventilatore mandata - Surriscaldamento modulo potenza (TFE) - Allarme	A124 - EBM supply fan - Power mod overheated (TFE) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1124**	1	AI_HallSenErr_EBM_SupplyFan.Active	A125 - Ventilatore mandata - Errore sensore Hall (HLL) - Allarme	A125 - EBM supply fan - Hall sensor error (HLL) - Alarm status	Bool	Read

Level	Types	Index	Size	Variable Name	Descrizione Variabile	Variable Description	DataType	Direction
Customer	**DiscreteInput**	**1125**	1	AI_CommunicationErr_EBM_SupplyFan.Active	A126 - Ventilatore mandata - Errore comunicazione (SKF) - Allarme	A126 - EBM supply fan - Communication error (SKF) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1126**	1	AI_OutStageHighTemp_EBM_SupplyFan.Active	A127 - Ventilatore mandata - Alta temperatura stadio di uscita (TE_high) - Allarme	A127 - EBM supply fan - Output stage temperature high (TE_high) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1127**	1	AI_InternCircHighTemp_EBM_SupplyFan.Active	A128 - Ventilatore mandata - Alta temperatura elettronica interna (TEI_high) - Allarme	A128 - EBM supply fan - Electronics interior temperature high (TEI_high) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1128**	1	AI_MotHighTemp_EBM_SupplyFan.Active	A129 - Ventilatore mandata - Alta temperatura motore (TM_high) - Allarme	A129 - EBM supply fan - Motor temperature high (TM_high) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1129**	1	AI_DClinkV_Low_EBM_SupplyFan.Active	A130 - Ventilatore mandata - DC - link bassa tensione (UzLow) - Allarme	A130 - EBM supply fan - DC - link voltage low (UzLow) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1130**	1	AI_LimMainsPwr_EBM_SupplyFan.Active	A131 - Ventilatore mandata - Limitazione potenza attiva (P_Limit) - Allarme	A131 - EBM supply fan - Power limitation engaged (P_Limit) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1131**	1	AI_LimMainsA_EBM_SupplyFan.Active	A132 - Ventilatore mandata - Limitazione corrente attiva (I_Limit) - Allarme	A132 - EBM supply fan - Current limitation engaged (I_Limit) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1132**	1	AI_BrakeMode_EBM_SupplyFan.Active	A133 - Ventilatore mandata - Frenatura attiva (Brake) - Allarme	A133 - EBM supply fan - Brake mode (Brake) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1133**	1	AI_CableBreak_EBM_SupplyFan.Active	A134 - Ventilatore mandata - Cavo segnale di comando rotto (Cable break) - Allarme	A134 - EBM supply fan - Cable break at set value analogue input (Cable break) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1134**	1	AI_IceProtection_EBM_SupplyFan.Active	A135 - Ventilatore mandata - Protezione antigelo attiva (Ice) - Allarme	A135 - EBM supply fan - Ice protection function active (Ice) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1135**	1	AI_HeatMotStopped_EBM_SupplyFan.Active	A136 - Ventilatore mandata - Riscaldamento motor - Allarme	A136 - EBM supply fan - Heating enabled, the motor should not be started - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1136**	1	AI_SpeedUnderLim_EBM_SupplyFan.Active	A137 - Ventilatore mandata - Velocità effettiva inferiore al minimo (n_Low) - Allarme	A137 - EBM supply fan - Actual speed is less than limit speed for running monitor (n_Low) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1137**	1	AI_DC_VoltageHigh_EBM_SupplyFan.Active	A138 - Ventilatore mandata - DC - link alta tensione (UzHigh) - Allarme	A138 - EBM supply fan - DC - link voltage high (UzHigh) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1138**	1	AI_SupplyVoltageHigh_EBM_SupplyFan.Active	A139 - Ventilatore mandata - Alta tensione linea alimentazione (UeHigh) - Allarme	A139 - EBM supply fan - Supply voltage high (UeHigh) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1139**	1	AI_LineImpHigh_EBM_SupplyFan.Active	A140 - Ventilatore mandata - Alta impedenza linea alimentazione (L_high) - Allarme	A140 - EBM supply fan - Line impedance too high (L_high) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1140**	1	AI_Offline_EBM_RetFan.Active	A141 - Ventilatore espulsione - Offline - Allarme	A141 - EBM return fan - Offline - Alarm status	Bool	Read

Level	Types	Index	Size	Variable Name	Descrizione Variabile	Variable Description	DataType	Direction
Customer	**DiscreteInput**	**1141**	1	AI_PhaseFault_EBM_RetFan.Active	A142 - Ventilatore espulsione - Mancanza fase (PHA) - Allarme	A142 - EBM return fan - Phase Failure (PHA) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1142**	1	AI_MotBlocked_EBM_RetFan.Active	A143 - Ventilatore espulsione - Motore bloccato (BLK) - Allarme	A143 - EBM return fan - Locked motor (BLK) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1143**	1	AI_MainsUnderV_EBM_RetFan.Active	A144 - Ventilatore espulsione - Sottotensione di rete (UeLow) - Allarme	A144 - EBM return fan - Mains undervoltage (UeLow) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1144**	1	AI_MainsOverV_EBM_RetFan.Active	A145 - Ventilatore espulsione - Sovratensione di rete (UeHigh) - Allarme	A145 - EBM return fan - Mains overvoltage (UeHigh) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1145**	1	AI_DClinkOverV_EBM_RetFan.Active	A146 - Ventilatore espulsione - DC - link sovratensione (UzHigh) - Allarme	A146 - EBM return fan - DC - link overvoltage (UzHigh) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1146**	1	AI_DClinkUnderV_EBM_RetFan.Active	A147 - Ventilatore espulsione - DC - link sottotensione (UzLow) - Allarme	A147 - EBM return fan - DC - link undervoltage (UzLow) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1147**	1	AI_MotSuperHeating_EBM_RetFan.Active	A148 - Ventilatore espulsione - Surriscaldamento motore (TFM) - Allarme	A148 - EBM return fan - Motor overheated (TFM) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1148**	1	AI_IntCircSuperHeat_EBM_RetFan.Active	A149 - Ventilatore espulsione - Surriscaldamento elettronica interna (TFEI) - Allarme	A149 - EBM return fan - Electronics interior overheated (TFEI) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1149**	1	AI_OutStageSuperHeat_EBM_RetFan.Active	A150 - Ventilatore espulsione - Surriscaldamento modulo potenza (TFE) - Allarme	A150 - EBM return fan - Power mod overheated (TFE) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1150**	1	AI_HallSenErr_EBM_RetFan.Active	A151 - Ventilatore espulsione - Errore sensore Hall (HLL) - Allarme	A151 - EBM return fan - Hall sensor error (HLL) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1151**	1	AI_CommunicationErr_EBM_RetFan.Active	A152 - Ventilatore espulsione - Errore comunicazione (SKF) - Allarme	A152 - EBM return fan - Communication error (SKF) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1152**	1	AI_OutStageHighTemp_EBM_RetFan.Active	A153 - Ventilatore espulsione - Alta temperatura stadio di uscita (TE_high) - Allarme	A153 - EBM return fan - Output stage temperature high (TE_high) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1153**	1	AI_InternCircHighTemp_EBM_RetFan.Active	A154 - Ventilatore espulsione - Alta temperatura elettronica interna (TEI_high) - Allarme	A154 - EBM return fan - Electronics interior temperature high (TEI_high) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1154**	1	AI_MotHighTemp_EBM_RetFan.Active	A155 - Ventilatore espulsione - Alta temperatura interna (TM_high) - Allarme	A155 - EBM return fan - Motor temperature high (TM_high) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1155**	1	AI_DClinkV_Low_EBM_RetFan.Active	A156 - Ventilatore espulsione - DC - bassa tensione (UzLow) - Allarme	A156 - EBM return fan - DC - link voltage low (UzLow) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1156**	1	AI_LimMainsPwr_EBM_RetFan.Active	A157 - Ventilatore espulsione - Limitazione potenza attiva (P_Limit) - Allarme	A157 - EBM return fan - Power limitation engaged (P_Limit) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1157**	1	AI_LimMainsA_EBM_RetFan.Active	A158 - Ventilatore espulsione - Limitazione corrente attiva (I_Limit) - Allarme	A158 - EBM return fan - Current limitation engaged (I_Limit) - Alarm status	Bool	Read

Level	Types	Index	Size	Variable Name	Descrizione Variabile	Variable Description	DataType	Direction
Customer	**DiscreteInput**	**1158**	1	AI_BrakeMode_EBM_RetFan.Active	A159 - Ventilatore espulsione - Frenatura attiva (Brake) - Allarme	A159 - EBM return fan - Brake mode (Brake) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1159**	1	AI_CableBreak_EBM_RetFan.Active	A160 - Ventilatore espulsione - Cavo segnale di comando rotto (Cable break) - Allarme	A160 - EBM return fan - Cable break at set value analogue input (Cable break) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1160**	1	AI_IceProtection_EBM_RetFan.Active	A161 - Ventilatore espulsione - Protezione antigelo attiva (Ice) - Allarme	A161 - EBM return fan - Ice protection function active (Ice) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1161**	1	AI_HeatMotStopped_EBM_RetFan.Active	A162 - Ventilatore espulsione - Riscaldamento motore - Allarme	A162 - EBM return fan - Heating enabled, the motor should not be started - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1162**	1	AI_SpeedUnderLim_EBM_RetFan.Active	A163 - Ventilatore espulsione - Velocità effettiva inferiore al minimo (n_Low) - Allarme	A163 - EBM return fan - Actual speed is less than limit speed for running monitor (n_Low) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1163**	1	AI_DC_VoltageHigh_EBM_RetFan.Active	A164 - Ventilatore espulsione - DC - link alta tensione (UzHigh) - Allarme	A164 - EBM return fan - DC - link voltage high (UzHigh) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1164**	1	AI_SupplyVoltageHigh_EBM_RetFan.Active	A165 - Ventilatore espulsione - Alta tensione linea alimentazione (UeHigh) - Allarme	A165 - EBM return fan - Supply voltage high (UeHigh) - Alarm status	Bool	Read
Customer	**DiscreteInput**	**1165**	1	AI_LineImpHigh_EBM_RetFan.Active	A166 - Ventilatore espulsione - Alta impedenza linea alimentazione (L_high) - Allarme	A166 - EBM return fan - Line impedance too high (L_high) - Alarm status	Bool	Read
Customer	**HoldingRegister**	**4**	1	CurrSupplyTempSetP.Val	Set point corrente temperatura mandata	Current supply temperature set point - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**7**	1	CurrAirFlwSetP.Val	Set point corrente portata aria mandata	Current air flow set point - Setpoint - Supply	Real	ReadWrite
Customer	**HoldingRegister**	**8**	1	CurrAirQualitySetP.Val	Set point corrente qualità aria	Current air quality set point - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**11**	1	CoolHeat_UI	0: Raffreddamento; 1: Riscaldamento; 2: Auto	0: Cooling; 1: Heating; 2: Auto	USInt	ReadWrite
Customer	**HoldingRegister**	**102**	1	UnitSetP.SupplyTempSetP.Cooling.Economy.Val	Set point riscaldamento in funzione economy	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**103**	1	UnitSetP.SupplyTempSetP.Heating.Economy.Val	Set point raffrescamento in funzione economy	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**108**	1	UnitSetP.SupplyTempSetP.Cooling.PreComfort.Val	Set point riscaldamento in funzione pre comfort	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**109**	1	UnitSetP.SupplyTempSetP.Heating.PreComfort.Val	Set point raffrescamento in funzione pre comfort	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**114**	1	UnitSetP.SupplyTempSetP.Cooling.Comfort.Val	Set point riscaldamento in funzione comfort	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite

Level	Types	Index	Size	Variable Name	Descrizione Variabile	Variable Description	DataType	Direction
Customer	**HoldingRegister**	**115**	1	UnitSetP.SupplyTempSetP.Heating.Comfort.Val	Set point raffrescamento in funzione comfort	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**165**	1	UnitSetP.AirFlwSetP.Economy.Val	Set point portata aria mandata in funzione economy	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**168**	1	UnitSetP.AirFlwSetP.PreComfort.Val	Set point portata aria mandata in funzione pre comfort	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**171**	1	UnitSetP.AirFlwSetP.Comfort.Val	Set point portata aria mandata in funzione comfort	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**174**	1	UnitSetP.AirQualitySetP.Economy.Val	Set point CO2 mandata in funzione economy	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**177**	1	UnitSetP.AirQualitySetP.PreComfort.Val	Set point CO2 mandata in funzione pre comfort	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**180**	1	UnitSetP.AirQualitySetP.Comfort.Val	Set point CO2 mandata in funzione comfort	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**785**	1	Scheduler_OnOffUnit.KeybOnOff	On/Off richiesto da tastiera	On/off request by pGD1 or PLD Pro	Int	ReadWrite
Customer	**HoldingRegister**	**786**	1	UnitSetP_Ret.AirFlwSetP.Economy.Val	Set point portata aria ripresa in funzione economy	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**789**	1	UnitSetP_Ret.AirFlwSetP.PreComfort.Val	Set point portata aria ripresa in funzione pre comfort	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**792**	1	UnitSetP_Ret.AirFlwSetP.Comfort.Val	Set point portata aria ripresa in funzione comfort	All unit setpoint (Temperature, Humidity, Air quality, Air flow) - Setpoint	Real	ReadWrite
Customer	**HoldingRegister**	**800**	1	CurrAirFlwSetP_Ret.Val	Set point corrente portata aria ripresa	Current air flow set point - Setpoint - Return	Real	ReadWrite
Customer	**InputRegister**	**31**	1	Fans_regulation.AirFlwVal	Portata ventilatore mandata	Input probe air flow	Real	Read
Customer	**InputRegister**	**32**	1	SupplyAirP.Val	Delta pressione ventilatore mandata	Supply air pressure - Software value	Real	Read
Customer	**InputRegister**	**42**	1	SupplyTemp.Val	Temperatura sonda mandata aria	Supply temperature - Software value	Real	Read
Customer	**InputRegister**	**55**	1	CompReq	Richiesta compressore	Compressor request	Real	Read
Customer	**InputRegister**	**107**	1	ExtTemp.Val	Temperatura sonda presa aria esterna	External temperature - Software value	Real	Read
Customer	**InputRegister**	**110**	1	RetAirP.Val	Delta pressione ventilatore espulsione	Return air pressure - Software value	Real	Read
Customer	**InputRegister**	**169**	1	ModulSupplyFan.Val	Comando ventilatore mandata	Modulating supply fan - Value (range 0.0 - 10.0)	Real	Read
Customer	**InputRegister**	**173**	1	ModulRetFan.Val	Comando ventilatore espulsione	Modulating return fan - Value (range 0.0 - 10.0)	Real	Read
Customer	**InputRegister**	**201**	1	ModulCoolHeatVlv.Val	Comando valvola promiscua batteria H2O	Modulating heating/cooling valve - Value (range 0.0 - 10.0)	Real	Read

AERMEC S.p.A.
Via Roma, 996
37040 Bevilacqua (VR) - Italia
Tel. + 39 0442 633111
Fax +39 0442 93577
marketing@aermec.com
www.aermec.com

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