

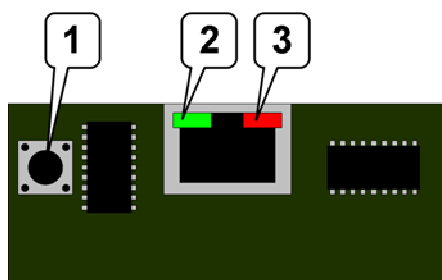


# **TCP/IP MODUL PRO REGULACI TYPU uPC**

compatibility: VTS Application from v\_1.0.5; BIOS from 5.14

doc. no. **00.155.930**

## TCP/IP MODUL



1. Tlačítko Pro aktivaci servisního módu
2. LED kontrolka statusu
2. LED kontrolka komunikace

**Poznámka!** Modul je náchylný k poškození statickým napětím. Proto mějte na paměti maximální opatrnost při transport, manipulaci a instalaci TCP/IP Modulu. Vyvarujte se dotyku obvodů Modulu a elektronické desky.

**Poznámka!** Vždy používejte plastové svorky k upevnění Modulu. Bez svorek může dojít k mechanickým a elektrickým škodám způsobeným napnutím kabelu nebo vibracemi!

## PŘIPOJENÍ

**Typ:** 10Mbps Ethernet

### Tovární nastavení:

IP: 172.16.0.1

Maska: 255.255.0.0

Port pro Modbus IP: 502

### Přihlašovací data:

user: **root** password: **froot**

user: **httpadmin** password: **fhttpadmin**

user: **carel** password: **fcarel**

user: **guest** password: **fguest**

## SERVISNÍ MÓD

Striktně dodržujte následující pokyny:

1. Vypněte napájení regulátoru
2. Stiskněte a držte tlačítko [1]
3. Zapněte napájení při stisknutí tlačítka [1] a stále držte cca 20 sekund - dokud nezačne pomalu blikat kontrolka Status LED [2] červenou barvou.
4. Uvolněte tlačítko.

**Poznámka!** Uvolníte -li tlačítko příliš pozdě (po třetím bliknutí) se servisní mód nebude aktivovat.

5. Pozorujte Status LED [2]. Jestliže byly kroky 1-4 provedeny správně, tato kontrolka blikne 3x rychle pro potvrzení aktivace servisního módu.

6. Počkejte cca 50 sekund a poté se připojte.

7. Při prvním připojení použijte přihlašovací údaje: jméno - **admin** a heslo : **fadmin**. Pro nastavení normálního připojení nastavte hlavní IP adresu na stránce nastavení.

## **PŘÍSTUP PŘES MODBUS IP**

Je-li správně nastavena adresa IP a maska sítě v servisním módu, je možno vstoupit do Modbus IP Serveru přímo. Komunikace Modbus IP je nastavena jako primární.

### **POPIS DAT**

#### **Multiplier**

0.1 - znamená, že tato fixní analogová hodnota je přenášena jako celé číslo: např. 10,4 je přenášeno jako 104

1.0 - znamená, že hodnota je celé číslo a nepotřebuje přepočet

#### **Def**

základní hodnota

#### **Mem type**

X - paměť RAM - dojde k jejímu vymazání při ztrátě napájení

T - permanentní paměť, nedojde k jejímu vymazání při ztrátě napájení

**NOTE! Paměť T má omezený počet cyklů (přibližně. 300 000 cyklů). Vyvarujte se zbytečným zápisům. Zkontrolujte aplikaci pro BMS na vynucené náhodné zápisy do regulátoru!**

#### **BMS Type**

Analog - fixní analogová hodnota přenášena jako celé číslo

Integer - přirozené celé číslo

Digital - logická hodnota

#### **BMS Index**

Číslo datového bodu pro Carel webserver

#### **Modbus Index**

Adresa registru v Modbus IP connection

#### **BMS Dir**

Out - pouze ke čtení

In/Out - data určená ke čtení i zápisu

**POZNÁMKA! Pamatujte na omezení cyklů paměti typu T!**



Variable	Description	Unit	Min	Max	Multiplier	Def	Mem type	Bms Type	Bms Index	Modbus Index	Bms Dir
gFan_ExhFreqRef	Freq reference for Exhaust (depends on Low/Econo/Comf mode)	Hz	001.0	100.0	0.1	5.0	X	Analog	1	1	Out
gFan_ExhOutputCurr_1	Output current Exhaust FC 1	A	000.0	999.9	0.1	0.0	X	Analog	2	2	Out
gFan_ExhOutputCurr_2	Output current Exhaust FC 2	A	000.0	999.9	0.1	0.0	X	Analog	3	3	Out
gFan_ExhOutputCurr_3	Output current Exhaust FC 3	A	000.0	999.9	0.1	0.0	X	Analog	4	4	Out
gFan_ExhOutputCurr_4	Output current Exhaust FC 4	A	000.0	999.9	0.1	0.0	X	Analog	5	5	Out
gFan_ExhOutputFreq_1	Output freq Exhaust FC 1	Hz	000.0	999.9	0.1	0.0	X	Analog	6	6	Out
gFan_ExhOutputFreq_2	Output freq Exhaust FC 2	Hz	000.0	999.9	0.1	0.0	X	Analog	7	7	Out
gFan_ExhOutputFreq_3	Output freq Exhaust FC 3	Hz	000.0	999.9	0.1	0.0	X	Analog	8	8	Out
gFan_ExhOutputFreq_4	Output freq Exhaust FC 4	Hz	000.0	999.9	0.1	0.0	X	Analog	9	9	Out
gFan_SupFreqRef	Freq reference for Supply (depends on Low/Econo/Comf mode)	Hz	001.0	100.0	0.1	5.0	X	Analog	10	10	Out
gFan_SupOutputCurr_1	Output current Supply FC 1	A	000.0	999.9	0.1	0.0	X	Analog	11	11	Out
gFan_SupOutputCurr_2	Output current Supply FC 2	A	000.0	999.9	0.1	0.0	X	Analog	12	12	Out
gFan_SupOutputCurr_3	Output current Supply FC 3	A	000.0	999.9	0.1	0.0	X	Analog	13	13	Out
gFan_SupOutputCurr_4	Output current Supply FC 4	A	000.0	999.9	0.1	0.0	X	Analog	14	14	Out
gFan_SupOutputFreq_1	Output freq Supply FC 1	Hz	000.0	999.9	0.1	0.0	X	Analog	15	15	Out
gFan_SupOutputFreq_2	Output freq Supply FC 2	Hz	000.0	999.9	0.1	0.0	X	Analog	16	16	Out
gFan_SupOutputFreq_3	Output freq Supply FC 3	Hz	000.0	999.9	0.1	0.0	X	Analog	17	17	Out
gFan_SupOutputFreq_4	Output freq Supply FC 4	Hz	000.0	999.9	0.1	0.0	X	Analog	18	18	Out
gInputAI_1_Sup	Analog input AI 1 as supply sensor	°C	-99.9	99.9	0.1	0.0	X	Analog	19	19	Out

gInputAI_2_Exh	Analog input AI 2 as exhaust sensor	°C	-99.9	99.9	0.1	0.0	X	Analog	<b>20</b>	<b>20</b>	Out
gInputAI_2_Room	Analog input AI 2 as room sensor	°C	-99.9	99.9	0.1	0.0	X	Analog	<b>21</b>	<b>21</b>	Out
gInputAI_3_Out	Analog input AI 3 as external sensor	°C	-99.9	99.9	0.1	0.0	X	Analog	<b>22</b>	<b>22</b>	Out
gInputAI_4_Reco	Analog input AI 4 as after recovery sensor	°C	-99.9	99.9	0.1	0.0	X	Analog	<b>23</b>	<b>23</b>	Out
gInputAI_5_RetHW	Analog input AI 5 as back water of heating coil	°C	-99.9	99.9	0.1	0.0	X	Analog	<b>24</b>	<b>24</b>	Out
gInputAI_6_PHHW	Analog input AI 6 as air after pre-heating coil	°C	-99.9	99.9	0.1	0.0	X	Analog	<b>25</b>	<b>25</b>	Out
gInputAI_7_RetPHHW	Analog input AI 7 as back water of pre-heating coil	°C	-99.9	99.9	0.1	0.0	X	Analog	<b>26</b>	<b>26</b>	Out
gInputAI_7_User	Analog input AI 7 as universal AI	%	-999.9	999.9	0.1	0.0	X	Analog	<b>27</b>	<b>27</b>	Out
gInputAI_MainSensor	Analog input Main sensor (depends on application settings)	°C	-99.9	99.9	0.1	0.0	X	Analog	<b>28</b>	<b>28</b>	Out
gInputAI_Offset_1	Offset for AI 1	K	-10.0	10.0	0.1	0.0	T	Analog	<b>29</b>	<b>29</b>	In/Out
gInputAI_Offset_2	Offset for AI 2	K	-10.0	10.0	0.1	0.0	T	Analog	<b>30</b>	<b>30</b>	In/Out
gInputAI_Offset_3	Offset for AI 3	K	-10.0	10.0	0.1	0.0	T	Analog	<b>31</b>	<b>31</b>	In/Out
gInputAI_Offset_4	Offset for AI 4	K	-10.0	10.0	0.1	0.0	T	Analog	<b>32</b>	<b>32</b>	In/Out
gInputAI_Offset_5	Offset for AI 5	K	-10.0	10.0	0.1	0.0	T	Analog	<b>33</b>	<b>33</b>	In/Out
gInputAI_Offset_6	Offset for AI 6	K	-10.0	10.0	0.1	0.0	T	Analog	<b>34</b>	<b>34</b>	In/Out
gInputAI_Offset_7	Offset for AI 7	K	-10.0	10.0	0.1	0.0	T	Analog	<b>35</b>	<b>35</b>	In/Out
gLimit_DZ_Comf	Deadzone for temp regulation in Comfort mode	K	01.0	10.0	0.1	1.0	T	Analog	<b>36</b>	<b>36</b>	In/Out
gLimit_DZ_Eco	Deadzone for temp regulation in Econo mode	K	01.0	10.0	0.1	2.0	T	Analog	<b>37</b>	<b>37</b>	In/Out
gLimit_DZ_Low	Deadzone for temp regulation in Low mode	K	01.0	10.0	0.1	4.0	T	Analog	<b>38</b>	<b>38</b>	In/Out
gLimit_FireTempLimit	Temp limit for fire alarm detection in supply / exhaust air	°C	70.0	97.0	0.1	7.0	T	Analog	<b>39</b>	<b>39</b>	In/Out
gLimit_MinOutTempForClg	Min out temp to enable cooling function	°C	10.0	25.0	0.1	16.0	T	Analog	<b>40</b>	<b>40</b>	Out
gLimit_MinOutTempForPumpHW	External temp for starting heating coil circulation pump	°C	00.0	15.0	0.1	5.0	T	Analog	<b>41</b>	<b>41</b>	Out

gLimit_MinOutTempForPumpPHHW	External temp for starting pre-heating circulation pump	°C	-50.0	15.0	0.1	5.0	T	Analog	<b>42</b>	<b>42</b>	Out
gLimit_MixCmbrAtComf	Min fresh air limit for mixing chamber in Comfort mode	%	000.0	100.0	0.1	30.0	T	Analog	<b>43</b>	<b>43</b>	In/Out
gLimit_MixCmbrAtEcono	Min fresh air limit for mixing chamber in Econo mode	%	000.0	100.0	0.1	30.0	T	Analog	<b>44</b>	<b>44</b>	In/Out
gLimit_MixCmbrAtLow	Min fresh air limit for mixing chamber in Low mode	%	000.0	100.0	0.1	30.0	T	Analog	<b>45</b>	<b>45</b>	In/Out
gLimit_RRGFreqHi	High freq limit for RRG frequency converter	Hz	40.0	70.0	0.1	5.0	T	Analog	<b>46</b>	<b>46</b>	In/Out
gLimit_RRGFreqLo	Low freq limit for RRG frequency converter	Hz	10.0	25.0	0.1	5.0	T	Analog	<b>47</b>	<b>47</b>	In/Out
gLimit_SupTempHi	High limit for supply air temperature	°C	05.0	40.0	0.1	30.0	T	Analog	<b>48</b>	<b>48</b>	In/Out
gLimit_SupTempLo	Low limit for supply air temperature	°C	05.0	40.0	0.1	15.0	T	Analog	<b>49</b>	<b>49</b>	In/Out
gOutputAO_1	Analog output 1 value	%	-3276.8	3276.7	0.1	0.0	X	Analog	<b>50</b>	<b>50</b>	Out
gOutputAO_2	Analog output 2 value	%	-3276.8	3276.7	0.1	0.0	X	Analog	<b>51</b>	<b>51</b>	Out
gOutputAO_3	Analog output 3 value	%	-3276.8	3276.7	0.1	0.0	X	Analog	<b>52</b>	<b>52</b>	Out
gOutputAO_Clg	Cooling rate from regulator loop	%	-3276.8	3276.7	0.1	0.0	X	Analog	<b>53</b>	<b>53</b>	Out
gOutputAO_Htg	Heating rate from regulator loop	%	-3276.8	3276.7	0.1	0.0	X	Analog	<b>54</b>	<b>54</b>	Out
gOutputAO_PreHtg	Pre-heating rate from regulator loop	%	-3276.8	3276.7	0.1	0.0	X	Analog	<b>55</b>	<b>55</b>	Out
gOutputAO_Reco	Recovery rate from regulator loop	%	-3276.8	3276.7	0.1	0.0	X	Analog	<b>56</b>	<b>56</b>	Out
gRRG_FreqRef	Freq reference for RRG (depends on recovery rate PI regulator)	Hz	000.0	999.9	0.1	0.0	X	Analog	<b>57</b>	<b>57</b>	Out
gRRG_OutputCurr	Output current RRG freq converter	A	000.0	999.9	0.1	0.0	X	Analog	<b>58</b>	<b>58</b>	Out
gRRG_OutputFreq	Output freq RRG freq converter	Hz	000.0	999.9	0.1	0.0	X	Analog	<b>59</b>	<b>59</b>	Out
gSet_ManMixCmbrAtComf	Manual recirculation rate for Comfort mode	%	000.0	100.0	0.1	30.0	T	Analog	<b>60</b>	<b>60</b>	In/Out
gSet_ManMixCmbrAtEcono	Manual recirculation rate for Econo mode	%	000.0	100.0	0.1	30.0	T	Analog	<b>61</b>	<b>61</b>	In/Out
gSet_ManMixCmbrAtLow	Manual recirculation rate for Low mode	%	000.0	100.0	0.1	30.0	T	Analog	<b>62</b>	<b>62</b>	In/Out
gSet_ManSetpFreqExh_1	Setpoint for Exhaust fan in Low mode	%	010.0	100.0	0.1	30.0	T	Analog	<b>63</b>	<b>63</b>	In/Out



gSet_ManSetpFreqExh_2	Setpoint for Exhaust fan in Econo mode	%	010.0	100.0	0.1	60.0	T	Analog	<b>64</b>	<b>64</b>	In/Out
gSet_ManSetpFreqExh_3	Setpoint for Exhaust fan in Comfort mode	%	010.0	100.0	0.1	90.0	T	Analog	<b>65</b>	<b>65</b>	In/Out
gSet_ManSetpFreqSup_1	Setpoint for Supply fan in Low mode	%	010.0	100.0	0.1	30.0	T	Analog	<b>66</b>	<b>66</b>	In/Out
gSet_ManSetpFreqSup_2	Setpoint for Supply fan in Econo mode	%	010.0	100.0	0.1	60.0	T	Analog	<b>67</b>	<b>67</b>	In/Out
gSet_ManSetpFreqSup_3	Setpoint for Supply fan in Comfort mode	%	010.0	100.0	0.1	90.0	T	Analog	<b>68</b>	<b>68</b>	In/Out
gSet_ManSetpParametricComf	Setpoint for parametric PI air volume regulator in Comfort mode	%	-100.0	100.0	0.1	0.0	T	Analog	<b>69</b>	<b>69</b>	In/Out
gSet_ManSetpParametricEco	Setpoint for parametric PI air volume regulator in Econo mode	%	-100.0	100.0	0.1	0.0	T	Analog	<b>70</b>	<b>70</b>	In/Out
gSet_ManSetpParametricLow	Setpoint for parametric PI air volume regulator in Low mode	%	-100.0	100.0	0.1	0.0	T	Analog	<b>71</b>	<b>71</b>	In/Out
gThTune_TempSensor	Temperature readout from HMI Basic uPC (thTune device)	°C	-99.9	99.9	0.1	0.0	X	Analog	<b>72</b>	<b>72</b>	Out
gTSetp_RecoFrostProt	Setpoint for recovery system anti-freezing protection	°C	-15.0	10.0	0.1	5.0	T	Analog	<b>73</b>	<b>73</b>	In/Out
gTSetp_Main	Main temperature setpoint	°C	-99.9	99.9	0.1	20.0	T	Analog	<b>74</b>	<b>74</b>	In/Out
gTSetp_11	Temperature setpoint for uPC calendar day 1 zone 1	°C	00.0	99.9	0.1	20.0	T	Analog	<b>75</b>	<b>75</b>	In/Out
gTSetp_12	Temperature setpoint for uPC calendar day 1 zone 2	°C	00.0	99.9	0.1	20.0	T	Analog	<b>76</b>	<b>76</b>	In/Out
gTSetp_13	Temperature setpoint for uPC calendar day 1 zone 3	°C	00.0	99.9	0.1	20.0	T	Analog	<b>77</b>	<b>77</b>	In/Out
gTSetp_14	Temperature setpoint for uPC calendar day 1 zone 4	°C	00.0	99.9	0.1	20.0	T	Analog	<b>78</b>	<b>78</b>	In/Out
gTSetp_15	Temperature setpoint for uPC calendar day 1 zone 5	°C	00.0	99.9	0.1	20.0	T	Analog	<b>79</b>	<b>79</b>	In/Out
gTSetp_16	Temperature setpoint for uPC calendar day 1 zone 6	°C	00.0	99.9	0.1	20.0	T	Analog	<b>80</b>	<b>80</b>	In/Out
gTSetp_21	Temperature setpoint for uPC calendar day 2 zone 1	°C	00.0	99.9	0.1	20.0	T	Analog	<b>81</b>	<b>81</b>	In/Out
gTSetp_22	Temperature setpoint for uPC calendar day 2 zone 2	°C	00.0	99.9	0.1	20.0	T	Analog	<b>82</b>	<b>82</b>	In/Out
gTSetp_23	Temperature setpoint for uPC calendar day 2 zone 3	°C	00.0	99.9	0.1	20.0	T	Analog	<b>83</b>	<b>83</b>	In/Out
gTSetp_24	Temperature setpoint for uPC calendar day 2 zone 4	°C	00.0	99.9	0.1	20.0	T	Analog	<b>84</b>	<b>84</b>	In/Out
gTSetp_25	Temperature setpoint for uPC calendar day 2 zone 5	°C	00.0	99.9	0.1	20.0	T	Analog	<b>85</b>	<b>85</b>	In/Out



gTSetp_26	Temperature setpoint for uPC calendar day 2 zone 6	°C	00.0	99.9	0.1	20.0	T	Analog	<b>86</b>	<b>86</b>	In/Out
gTSetp_31	Temperature setpoint for uPC calendar day 3 zone 1	°C	00.0	99.9	0.1	20.0	T	Analog	<b>87</b>	<b>87</b>	In/Out
gTSetp_32	Temperature setpoint for uPC calendar day 3 zone 2	°C	00.0	99.9	0.1	20.0	T	Analog	<b>88</b>	<b>88</b>	In/Out
gTSetp_33	Temperature setpoint for uPC calendar day 3 zone 3	°C	00.0	99.9	0.1	20.0	T	Analog	<b>89</b>	<b>89</b>	In/Out
gTSetp_34	Temperature setpoint for uPC calendar day 3 zone 4	°C	00.0	99.9	0.1	20.0	T	Analog	<b>90</b>	<b>90</b>	In/Out
gTSetp_35	Temperature setpoint for uPC calendar day 3 zone 5	°C	00.0	99.9	0.1	20.0	T	Analog	<b>91</b>	<b>91</b>	In/Out
gTSetp_36	Temperature setpoint for uPC calendar day 3 zone 6	°C	00.0	99.9	0.1	20.0	T	Analog	<b>92</b>	<b>92</b>	In/Out
gTSetp_41	Temperature setpoint for uPC calendar day 4 zone 1	°C	00.0	99.9	0.1	20.0	T	Analog	<b>93</b>	<b>93</b>	In/Out
gTSetp_42	Temperature setpoint for uPC calendar day 4 zone 2	°C	00.0	99.9	0.1	20.0	T	Analog	<b>94</b>	<b>94</b>	In/Out
gTSetp_43	Temperature setpoint for uPC calendar day 4 zone 3	°C	00.0	99.9	0.1	20.0	T	Analog	<b>95</b>	<b>95</b>	In/Out
gTSetp_44	Temperature setpoint for uPC calendar day 4 zone 4	°C	00.0	99.9	0.1	20.0	T	Analog	<b>96</b>	<b>96</b>	In/Out
gTSetp_45	Temperature setpoint for uPC calendar day 4 zone 5	°C	00.0	99.9	0.1	20.0	T	Analog	<b>97</b>	<b>97</b>	In/Out
gTSetp_46	Temperature setpoint for uPC calendar day 4 zone 6	°C	00.0	99.9	0.1	20.0	T	Analog	<b>98</b>	<b>98</b>	In/Out
gTSetp_51	Temperature setpoint for uPC calendar day 5 zone 1	°C	00.0	99.9	0.1	20.0	T	Analog	<b>99</b>	<b>99</b>	In/Out
gTSetp_52	Temperature setpoint for uPC calendar day 5 zone 2	°C	00.0	99.9	0.1	20.0	T	Analog	<b>100</b>	<b>100</b>	In/Out
gTSetp_53	Temperature setpoint for uPC calendar day 5 zone 3	°C	00.0	99.9	0.1	20.0	T	Analog	<b>101</b>	<b>101</b>	In/Out
gTSetp_54	Temperature setpoint for uPC calendar day 5 zone 4	°C	00.0	99.9	0.1	20.0	T	Analog	<b>102</b>	<b>102</b>	In/Out
gTSetp_55	Temperature setpoint for uPC calendar day 5 zone 5	°C	00.0	99.9	0.1	20.0	T	Analog	<b>103</b>	<b>103</b>	In/Out
gTSetp_56	Temperature setpoint for uPC calendar day 5 zone 6	°C	00.0	99.9	0.1	20.0	T	Analog	<b>104</b>	<b>104</b>	In/Out
gTSetp_61	Temperature setpoint for uPC calendar day 6 zone 1	°C	00.0	99.9	0.1	20.0	T	Analog	<b>105</b>	<b>105</b>	In/Out
gTSetp_62	Temperature setpoint for uPC calendar day 6 zone 2	°C	00.0	99.9	0.1	20.0	T	Analog	<b>106</b>	<b>106</b>	In/Out
gTSetp_63	Temperature setpoint for uPC calendar day 6 zone 3	°C	00.0	99.9	0.1	20.0	T	Analog	<b>107</b>	<b>107</b>	In/Out





gTSetp_64	Temperature setpoint for uPC calendar day 6 zone 4	°C	00.0	99.9	0.1	20.0	T	Analog	<b>108</b>	<b>108</b>	In/Out
gTSetp_65	Temperature setpoint for uPC calendar day 6 zone 5	°C	00.0	99.9	0.1	20.0	T	Analog	<b>109</b>	<b>109</b>	In/Out
gTSetp_66	Temperature setpoint for uPC calendar day 6 zone 6	°C	00.0	99.9	0.1	20.0	T	Analog	<b>110</b>	<b>110</b>	In/Out
gTSetp_71	Temperature setpoint for uPC calendar day 7 zone 1	°C	00.0	99.9	0.1	20.0	T	Analog	<b>111</b>	<b>111</b>	In/Out
gTSetp_72	Temperature setpoint for uPC calendar day 7 zone 2	°C	00.0	99.9	0.1	20.0	T	Analog	<b>112</b>	<b>112</b>	In/Out
gTSetp_73	Temperature setpoint for uPC calendar day 7 zone 3	°C	00.0	99.9	0.1	20.0	T	Analog	<b>113</b>	<b>113</b>	In/Out
gTSetp_74	Temperature setpoint for uPC calendar day 7 zone 4	°C	00.0	99.9	0.1	20.0	T	Analog	<b>114</b>	<b>114</b>	In/Out
gTSetp_75	Temperature setpoint for uPC calendar day 7 zone 5	°C	00.0	99.9	0.1	20.0	T	Analog	<b>115</b>	<b>115</b>	In/Out
gTSetp_76	Temperature setpoint for uPC calendar day 7 zone 6	°C	00.0	99.9	0.1	20.0	T	Analog	<b>116</b>	<b>116</b>	In/Out
gTSetp_Exc_1	Temperature setpoint for uPC calendar exception period 1	°C	00.0	99.9	0.1	20.0	T	Analog	<b>117</b>	<b>117</b>	In/Out
gTSetp_Exc_2	Temperature setpoint for uPC calendar exception period 2	°C	00.0	99.9	0.1	20.0	T	Analog	<b>118</b>	<b>118</b>	In/Out
gTSetp_Exc_3	Temperature setpoint for uPC calendar exception period 3	°C	00.0	99.9	0.1	20.0	T	Analog	<b>119</b>	<b>119</b>	In/Out
gTSetp_Exc_4	Temperature setpoint for uPC calendar exception period 4	°C	00.0	99.9	0.1	20.0	T	Analog	<b>120</b>	<b>120</b>	In/Out
gTSetp_Exc_5	Temperature setpoint for uPC calendar exception period 5	°C	00.0	99.9	0.1	20.0	T	Analog	<b>121</b>	<b>121</b>	In/Out
gTSetp_Exc_6	Temperature setpoint for uPC calendar exception period 6	°C	00.0	99.9	0.1	20.0	T	Analog	<b>122</b>	<b>122</b>	In/Out
fAlarm_AftRecoSens	Alarm flag for after recovery air temp sensor malfunction	---	0	1	1.0	0	X	Digital	<b>1</b>	<b>1</b>	Out
fAlarm_Chillers	Alarm flag for chiller	---	0	1	1.0	0	X	Digital	<b>2</b>	<b>2</b>	Out
fAlarm_ExhFanComm_1	Alarm flag for communication error FC Exhaust 1	---	0	1	1.0	0	X	Digital	<b>3</b>	<b>3</b>	Out
fAlarm_ExhFanComm_2	Alarm flag for communication error FC Exhaust 2	---	0	1	1.0	0	X	Digital	<b>4</b>	<b>4</b>	Out
fAlarm_ExhFanComm_3	Alarm flag for communication error FC Exhaust 3	---	0	1	1.0	0	X	Digital	<b>5</b>	<b>5</b>	Out
fAlarm_ExhFanComm_4	Alarm flag for communication error FC Exhaust 4	---	0	1	1.0	0	X	Digital	<b>6</b>	<b>6</b>	Out
fAlarm_ExhFanOvld_1	Alarm flag for overload FC Exhaust 1	---	0	1	1.0	0	X	Digital	<b>7</b>	<b>7</b>	Out

fAlarm_ExhFanOvld_2	Alarm flag for overload FC Exhaust 2	---	0	1	1.0	0	X	Digital	<b>8</b>	<b>8</b>	Out
fAlarm_ExhFanOvld_3	Alarm flag for overload FC Exhaust 3	---	0	1	1.0	0	X	Digital	<b>9</b>	<b>9</b>	Out
fAlarm_ExhFanOvld_4	Alarm flag for overload FC Exhaust 4	---	0	1	1.0	0	X	Digital	<b>10</b>	<b>10</b>	Out
fAlarm_ExhFilters	Alarm flag for ehxhaust filters	---	0	1	1.0	0	X	Digital	<b>11</b>	<b>11</b>	Out
fAlarm_ExhSens	Alarm flag for exhaust air temperature sensor malfunction	---	0	1	1.0	0	X	Digital	<b>12</b>	<b>12</b>	Out
fAlarm_ExternalSens	Alarm flag for external air temperature sensor malfunction	---	0	1	1.0	0	X	Digital	<b>13</b>	<b>13</b>	Out
fAlarm_Fire	Alarm flag for fire protection	---	0	1	1.0	0	X	Digital	<b>14</b>	<b>14</b>	Out
fAlarm_Heating	Alarm flag for heaters (common for water and electric heaters)	---	0	1	1.0	0	X	Digital	<b>15</b>	<b>15</b>	Out
fAlarm_Heating3xLocked	Alarm flag for heaters protection activated 3x and locked	---	0	1	1.0	0	X	Digital	<b>16</b>	<b>16</b>	Out
fAlarm_HEOVht	Alarm flag for electric heater overheating protection	---	0	1	1.0	0	X	Digital	<b>17</b>	<b>17</b>	Out
fAlarm_HMIBasicComm	Alarm flag for communication error HMI Basic (thTune device)	---	0	1	1.0	0	X	Digital	<b>18</b>	<b>18</b>	Out
fAlarm_HMIBasicInit	Alarm flag for initialization error HMI Basic (thTune device)	---	0	1	1.0	0	X	Digital	<b>19</b>	<b>19</b>	Out
fAlarm_HW_BackW	Alarm flag for heater's backwater temperature drop	---	0	1	1.0	0	X	Digital	<b>20</b>	<b>20</b>	Out
fAlarm_HW_Th	Alarm flag for heaters frost thermostat	---	0	1	1.0	0	X	Digital	<b>21</b>	<b>21</b>	Out
fAlarm_HWWaterSens	Alarm flag for heater's backwater sensor malfunction	---	0	1	1.0	0	X	Digital	<b>22</b>	<b>22</b>	Out
fAlarm_ManualMode	Alarm flag for manual override of controller's I/O	---	0	1	1.0	0	X	Digital	<b>23</b>	<b>23</b>	Out
fAlarm_PreHeating3xLocked	Alarm flag for heaters frost protection activated 3x and locked	---	0	1	1.0	0	X	Digital	<b>24</b>	<b>24</b>	Out
fAlarm_PreHW_BackW	Alarm flag for pre-heater's backwater temperature drop	---	0	1	1.0	0	X	Digital	<b>25</b>	<b>25</b>	Out
fAlarm_PreHW_Th	Alarm flag for pre-heaters frost thermostat	---	0	1	1.0	0	X	Digital	<b>26</b>	<b>26</b>	Out
fAlarm_PreHWSens	Alarm flag for air sensor malfunction after pre-heating coil	---	0	1	1.0	0	X	Digital	<b>27</b>	<b>27</b>	Out
fAlarm_PreHWWaterSens	Alarm flag for pre-heater's backwater sensor malfunction	---	0	1	1.0	0	X	Digital	<b>28</b>	<b>28</b>	Out
fAlarm_RoomSens	Alarm flag for room temperature sensor malfunction	---	0	1	1.0	0	X	Digital	<b>29</b>	<b>29</b>	Out

fAlarm_RRGComm	Alarm flag for communication RRG drive	---	0	1	1.0	0	X	Digital	<b>30</b>	<b>30</b>	Out
fAlarm_RRGovld	Alarm flag for overload RRG drive	---	0	1	1.0	0	X	Digital	<b>31</b>	<b>31</b>	Out
fAlarm_SupFanComm_1	Alarm flag for communication error FC Supply 1	---	0	1	1.0	0	X	Digital	<b>32</b>	<b>32</b>	Out
fAlarm_SupFanComm_2	Alarm flag for communication error FC Supply 2	---	0	1	1.0	0	X	Digital	<b>33</b>	<b>33</b>	Out
fAlarm_SupFanComm_3	Alarm flag for communication error FC Supply 3	---	0	1	1.0	0	X	Digital	<b>34</b>	<b>34</b>	Out
fAlarm_SupFanComm_4	Alarm flag for communication error FC Supply 4	---	0	1	1.0	0	X	Digital	<b>35</b>	<b>35</b>	Out
fAlarm_SupFanOvld_1	Alarm flag for overload FC Supply 1	---	0	1	1.0	0	X	Digital	<b>36</b>	<b>36</b>	Out
fAlarm_SupFanOvld_2	Alarm flag for overload FC Supply 2	---	0	1	1.0	0	X	Digital	<b>37</b>	<b>37</b>	Out
fAlarm_SupFanOvld_3	Alarm flag for overload FC Supply 3	---	0	1	1.0	0	X	Digital	<b>38</b>	<b>38</b>	Out
fAlarm_SupFanOvld_4	Alarm flag for overload FC Supply 4	---	0	1	1.0	0	X	Digital	<b>39</b>	<b>39</b>	Out
fAlarm_SupFilters	Alarm flag for supply filters	---	0	1	1.0	0	X	Digital	<b>40</b>	<b>40</b>	Out
fAlarm_SupSens	Alarm flag for supply air temperature sensor malfunction	---	0	1	1.0	0	X	Digital	<b>41</b>	<b>41</b>	Out
gAlarmAckPRG	Alarm Acknowledge default = 0 switch to 1 to cancel alarm memory will be reset to 0 automatically after 2 seconds Note! The same bit is activated by PRG button on HMI Advanced (pGD1 terminal)	---	0	1	1.0	0	X	Digital	<b>42</b>	<b>42</b>	In/Out
gBMS_SummerWinter	Switch the mode for universal heating / cooling coil 0=Summer 1=Winter	---	0	1	1.0	0	X	Digital	<b>43</b>	<b>43</b>	In/Out
gConf_AppCodeERR	Warning for bad configuration of the controller	---	0	1	1.0	0	X	Digital	<b>44</b>	<b>44</b>	Out
gConf_AppState	0=Config 1=Running	---	0	1	1.0	0	T	Digital	<b>45</b>	<b>45</b>	Out
gInputDI_1	State of digital input DI 1	---	0	1	1.0	0	X	Digital	<b>46</b>	<b>46</b>	Out

gInputDI_2	State of digital input DI 2	---	0	1	1.0	0	X	Digital	<b>47</b>	<b>47</b>	Out
gInputDI_3	State of digital input DI 3	---	0	1	1.0	0	X	Digital	<b>48</b>	<b>48</b>	Out
gInputDI_4	State of digital input DI 4	---	0	1	1.0	0	X	Digital	<b>49</b>	<b>49</b>	Out
gInputDI_5	State of digital input DI 5	---	0	1	1.0	0	X	Digital	<b>50</b>	<b>50</b>	Out
gInputDI_6	State of digital input DI 6	---	0	1	1.0	0	X	Digital	<b>51</b>	<b>51</b>	Out
gInputDI_7	State of digital input DI 7	---	0	1	1.0	0	X	Digital	<b>52</b>	<b>52</b>	Out
GLOBAL_ALARM	Global (general) alarm flag 0 = no pending alarms 1 = alarms need to be acknowledged	---	0	1	1.0	0	X	Digital	<b>53</b>	<b>53</b>	Out
gOpMode_SummerWinter	Indication of current operating mode	---	0	1	1.0	0	X	Digital	<b>54</b>	<b>54</b>	Out
gOutputREL_1	State of output relay 1	---	0	1	1.0	0	X	Digital	<b>55</b>	<b>55</b>	Out
gOutputREL_2	State of output relay 2	---	0	1	1.0	0	X	Digital	<b>56</b>	<b>56</b>	Out
gOutputREL_3	State of output relay 3	---	0	1	1.0	0	X	Digital	<b>57</b>	<b>57</b>	Out
gOutputREL_4	State of output relay 4	---	0	1	1.0	0	X	Digital	<b>58</b>	<b>58</b>	Out
gOutputREL_5	State of output relay 5	---	0	1	1.0	0	X	Digital	<b>59</b>	<b>59</b>	Out
gOutputREL_6	State of output relay 6	---	0	1	1.0	0	X	Digital	<b>60</b>	<b>60</b>	Out
gOutputREL_7	State of output relay 7	---	0	1	1.0	0	X	Digital	<b>61</b>	<b>61</b>	Out
gSched_DataErr	uPC calendar check flag 0 = OK 1 = calendar settings contain errors (e.g. bad order of time zones)	---	0	1	1.0	0	X	Digital	<b>62</b>	<b>62</b>	Out
gSched_ExcEnable_1	uPC calendar: enabled exceptions No. 1	---	0	1	1.0	0	T	Digital	<b>63</b>	<b>63</b>	In/Out
gSched_ExcEnable_2	uPC calendar: enabled exceptions No. 2	---	0	1	1.0	0	T	Digital	<b>64</b>	<b>64</b>	In/Out
gSched_ExcEnable_3	uPC calendar: enabled exceptions No. 3	---	0	1	1.0	0	T	Digital	<b>65</b>	<b>65</b>	In/Out



gSched_ExcEnable_4	uPC calendar: enabled exceptions No. 4	---	0	1	1.0	0	T	Digital	<b>66</b>	<b>66</b>	In/Out
gSched_ExcEnable_5	uPC calendar: enabled exceptions No. 5	---	0	1	1.0	0	T	Digital	<b>67</b>	<b>67</b>	In/Out
gSched_ExcEnable_6	uPC calendar: enabled exceptions No. 6	---	0	1	1.0	0	T	Digital	<b>68</b>	<b>68</b>	In/Out
gConf_AppCodeLtr	Application Code letter	---	0	4	1.0	0	T	Integer	<b>1</b>	<b>5001</b>	Out
gConf_AppCodeNum	Application Code number	---	0	1024	1.0	0	T	Integer	<b>2</b>	<b>5002</b>	Out
gFan_ExhFireSetp	Setpoint for exhaust fan operation at fire alarm 0 = off 1 = 20% speed 2 = 40% 3 = 60% 4 = 80% 5 = 100% 6 - do not use!	---	0	6	1.0	0	T	Integer	<b>3</b>	<b>5003</b>	In/Out
gFan_ExhStartCommand	Exhaust fan start command 1 = Stop 2 = Run	---	-32768	32767	1.0	0	X	Integer	<b>4</b>	<b>5004</b>	Out
gFan_ExhStatus_1	Status of the frequency converter 0=OK, 1=Comm - communication errors 2=Alarm - device reported an alarm	---	0	9999	1.0	0	X	Integer	<b>5</b>	<b>5005</b>	Out
gFan_ExhStatus_2	Status of the frequency converter 0=OK, 1=Comm - communication errors 2=Alarm - device reported an alarm	---	0	9999	1.0	0	X	Integer	<b>6</b>	<b>5006</b>	Out



gFan_ExhStatus_3	Status of the frequency converter 0=OK, 1=Comm - communication errors 2=Alarm - device reported an alarm	---	0	9999	1.0	0	X	Integer	<b>7</b>	<b>5007</b>	Out
gFan_ExhStatus_4	Status of the frequency converter 0=OK, 1=Comm - communication errors 2=Alarm - device reported an alarm	---	0	9999	1.0	0	X	Integer	<b>8</b>	<b>5008</b>	Out
gFan_SupFireSetp	Setpoint for supply fan operation at fire alarm 0 = off 1 = 20% speed 2 = 40% 3 = 60% 4 = 80% 5 = 100% 6 - do not use!	---	0	6	1.0	0	T	Integer	<b>9</b>	<b>5009</b>	In/Out
gFan_SupStartCommand	Supply fan start command 1 = Stop 2 = Run	---	-32768	32767	1.0	0	X	Integer	<b>10</b>	<b>5010</b>	Out
gFan_SupStatus_1	Status of the frequency converter 0=OK, 1=Comm - communication errors 2=Alarm - device reported an alarm	---	0	9999	1.0	0	X	Integer	<b>11</b>	<b>5011</b>	Out
gFan_SupStatus_2	Status of the frequency converter 0=OK, 1=Comm - communication errors 2=Alarm - device reported an alarm	---	0	9999	1.0	0	X	Integer	<b>12</b>	<b>5012</b>	Out

gFan_SupStatus_3	Status of the frequency converter 0=OK, 1=Comm - communication errors 2=Alarm - device reported an alarm	---	0	9999	1.0	0	X	Integer	<b>13</b>	<b>5013</b>	Out
gFan_SupStatus_4	Status of the frequency converter 0=OK, 1=Comm - communication errors 2=Alarm - device reported an alarm	---	0	9999	1.0	0	X	Integer	<b>14</b>	<b>5014</b>	Out
gOpMode_BMS	Setpoint for operating mode from BMS 0 = Auto 1 = Off 2 = Standby 3 = Low 4 = Econo 5 = Comfort Note! Setting will be lost after power-down. It's stored in X-memory (RAM)	---	0	5	1.0	1	X	Integer	<b>15</b>	<b>5015</b>	In/Out
gOpMode_DI	Operating mode resulting from digital inputs. 0..5 = the same meaning like above.	---	0	5	1.0	1	X	Integer	<b>16</b>	<b>5016</b>	Out
gOpMode_Main	General operating mode resulting from all sources. Controller works according to that value. 0..5 = the same meaning like above.	---	0	5	1.0	1	X	Integer	<b>17</b>	<b>5017</b>	Out
gOpMode_PGD	Operating mode resulting from HMI Advanced (pGD1 terminal) 0..5 = the same meaning like above.	---	0	5	1.0	1	T	Integer	<b>18</b>	<b>5018</b>	Out
gOpMode_Scheduler	Operating mode resulting from uPC calendar 0..5 = the same meaning like above.	---	0	5	1.0	1	X	Integer	<b>19</b>	<b>5019</b>	Out
gOpMode_thTune	Operating mode resulting from HMI Basic (thTune terminal) 0..5 = the same meaning like above.	---	0	5	1.0	0	X	Integer	<b>20</b>	<b>5020</b>	Out

gOpMode_thTuneScheduler	Operating mode resulting from HMI Basic calendar 0..5 = the same meaning like above.	---	0	5	1.0	0	X	Integer	<b>21</b>	<b>5021</b>	Out
gSet_IdleDelayExh	Time for startup of the AHU - Exhaust fans run at minimal speed	s	0	180	1.0	30	T	Integer	<b>22</b>	<b>5022</b>	In/Out
gSet_IdleDelaySup	Time for startup of the AHU - Supply fans run at minimal speed	s	0	180	1.0	20	T	Integer	<b>23</b>	<b>5023</b>	In/Out
gSet_MixCmbrMode	Mode of mixing chamber 0 = Max. energy changeover - controlled by PI regulator 1 = Manual mode 2 = According to analog input AI7	---	0	2	1.0	0	T	Integer	<b>24</b>	<b>5024</b>	In/Out
gSet_OffDelayExh	Time for rundown of the AHU - Exhaust fans run at minimal speed	s	0	180	1.0	10	T	Integer	<b>25</b>	<b>5025</b>	In/Out
gSet_OffDelaySup	Time for rundown of the AHU - Supply fans run at minimal speed	s	0	180	1.0	10	T	Integer	<b>26</b>	<b>5026</b>	In/Out
gSet_OnDelayExh	Time delay before startup of the AHU - Exhaust fans waiting	s	0	180	1.0	10	T	Integer	<b>27</b>	<b>5027</b>	In/Out
gSet_OnDelaySup	Time delay before startup of the AHU - Supply fans waiting	s	0	180	1.0	20	T	Integer	<b>28</b>	<b>5028</b>	In/Out



<b>gActOpMode</b>	Actual operating mode of the AHU - depends on gOpMode_Main and current conditions, alarms, startup etc. 0 = Off 1 = Initial Heating 2 = Startup 3 = Standby Heating 4 = Standby Cooling 5 = Fast Heating 6 = Fast Cooling 7 = Heating 8 = Ventilation 9 = Cooling 10 = Night Cooling 11 = Overrun (rundown of the AHU) 12 = Fire mode 13 = Night Test 14 = Emergency Stop 15 = Alarm Stop 16 = Critical Alarm Stop 17 = Configuration (AHU cannot be started)	---	0	17	1.0	1	X	Integer	<b>29</b>	<b>5029</b>	Out
<b>gRRG_Status</b>	Status of the frequency converter 0=OK, 1=Comm - communication errors 2=Alarm - device reported an alarm	---	0	9999	1.0	0	X	Integer	<b>30</b>	<b>5030</b>	Out



gOpMode_11	Setpoint for operating mode from uPC calendar, day 1, time zone 1 0 = Auto 1 = Off 2 = Standby 3 = Low 4 = Econo 5 = Comfort	---	0	5	1.0	0	T	Integer	<b>31</b>	<b>5031</b>	In/Out
gOpMode_12	Setpoint for operating mode from uPC calendar, day 1, time zone 2	---	0	5	1.0	0	T	Integer	<b>32</b>	<b>5032</b>	In/Out
gOpMode_13	Setpoint for operating mode from uPC calendar, day 1, time zone 3	---	0	5	1.0	0	T	Integer	<b>33</b>	<b>5033</b>	In/Out
gOpMode_14	Setpoint for operating mode from uPC calendar, day 1, time zone 4	---	0	5	1.0	0	T	Integer	<b>34</b>	<b>5034</b>	In/Out
gOpMode_15	Setpoint for operating mode from uPC calendar, day 1, time zone 5	---	0	5	1.0	0	T	Integer	<b>35</b>	<b>5035</b>	In/Out
gOpMode_16	Setpoint for operating mode from uPC calendar, day 1, time zone 6	---	0	5	1.0	0	T	Integer	<b>36</b>	<b>5036</b>	In/Out
gOpMode_21	Setpoint for operating mode from uPC calendar, day 2, time zone 1	---	0	5	1.0	0	T	Integer	<b>37</b>	<b>5037</b>	In/Out
gOpMode_22	Setpoint for operating mode from uPC calendar, day 2, time zone 2	---	0	5	1.0	0	T	Integer	<b>38</b>	<b>5038</b>	In/Out
gOpMode_23	Setpoint for operating mode from uPC calendar, day 2, time zone 3	---	0	5	1.0	0	T	Integer	<b>39</b>	<b>5039</b>	In/Out
gOpMode_24	Setpoint for operating mode from uPC calendar, day 2, time zone 4	---	0	5	1.0	0	T	Integer	<b>40</b>	<b>5040</b>	In/Out
gOpMode_25	Setpoint for operating mode from uPC calendar, day 2, time zone 5	---	0	5	1.0	0	T	Integer	<b>41</b>	<b>5041</b>	In/Out
gOpMode_26	Setpoint for operating mode from uPC calendar, day 2, time zone 6	---	0	5	1.0	0	T	Integer	<b>42</b>	<b>5042</b>	In/Out
gOpMode_31	Setpoint for operating mode from uPC calendar, day 3, time zone 1	---	0	5	1.0	0	T	Integer	<b>43</b>	<b>5043</b>	In/Out
gOpMode_32	Setpoint for operating mode from uPC calendar, day 3, time zone 2	---	0	5	1.0	0	T	Integer	<b>44</b>	<b>5044</b>	In/Out
gOpMode_33	Setpoint for operating mode from uPC calendar, day 3, time zone 3	---	0	5	1.0	0	T	Integer	<b>45</b>	<b>5045</b>	In/Out
gOpMode_34	Setpoint for operating mode from uPC calendar, day 3, time zone 4	---	0	5	1.0	0	T	Integer	<b>46</b>	<b>5046</b>	In/Out
gOpMode_35	Setpoint for operating mode from uPC calendar, day 3, time zone 5	---	0	5	1.0	0	T	Integer	<b>47</b>	<b>5047</b>	In/Out



gOpMode_36	Setpoint for operating mode from uPC calendar, day 3, time zone 6	---	0	5	1.0	0	T	Integer	<b>48</b>	<b>5048</b>	In/Out
gOpMode_41	Setpoint for operating mode from uPC calendar, day 4, time zone 1	---	0	5	1.0	0	T	Integer	<b>49</b>	<b>5049</b>	In/Out
gOpMode_42	Setpoint for operating mode from uPC calendar, day 4, time zone 2	---	0	5	1.0	0	T	Integer	<b>50</b>	<b>5050</b>	In/Out
gOpMode_43	Setpoint for operating mode from uPC calendar, day 4, time zone 3	---	0	5	1.0	0	T	Integer	<b>51</b>	<b>5051</b>	In/Out
gOpMode_44	Setpoint for operating mode from uPC calendar, day 4, time zone 4	---	0	5	1.0	0	T	Integer	<b>52</b>	<b>5052</b>	In/Out
gOpMode_45	Setpoint for operating mode from uPC calendar, day 4, time zone 5	---	0	5	1.0	0	T	Integer	<b>53</b>	<b>5053</b>	In/Out
gOpMode_46	Setpoint for operating mode from uPC calendar, day 4, time zone 6	---	0	5	1.0	0	T	Integer	<b>54</b>	<b>5054</b>	In/Out
gOpMode_51	Setpoint for operating mode from uPC calendar, day 5, time zone 1	---	0	5	1.0	0	T	Integer	<b>55</b>	<b>5055</b>	In/Out
gOpMode_52	Setpoint for operating mode from uPC calendar, day 5, time zone 2	---	0	5	1.0	0	T	Integer	<b>56</b>	<b>5056</b>	In/Out
gOpMode_53	Setpoint for operating mode from uPC calendar, day 5, time zone 3	---	0	5	1.0	0	T	Integer	<b>57</b>	<b>5057</b>	In/Out
gOpMode_54	Setpoint for operating mode from uPC calendar, day 5, time zone 4	---	0	5	1.0	0	T	Integer	<b>58</b>	<b>5058</b>	In/Out
gOpMode_55	Setpoint for operating mode from uPC calendar, day 5, time zone 5	---	0	5	1.0	0	T	Integer	<b>59</b>	<b>5059</b>	In/Out
gOpMode_56	Setpoint for operating mode from uPC calendar, day 5, time zone 6	---	0	5	1.0	0	T	Integer	<b>60</b>	<b>5060</b>	In/Out
gOpMode_61	Setpoint for operating mode from uPC calendar, day 6, time zone 1	---	0	5	1.0	0	T	Integer	<b>61</b>	<b>5061</b>	In/Out
gOpMode_62	Setpoint for operating mode from uPC calendar, day 6, time zone 2	---	0	5	1.0	0	T	Integer	<b>62</b>	<b>5062</b>	In/Out
gOpMode_63	Setpoint for operating mode from uPC calendar, day 6, time zone 3	---	0	5	1.0	0	T	Integer	<b>63</b>	<b>5063</b>	In/Out
gOpMode_64	Setpoint for operating mode from uPC calendar, day 6, time zone 4	---	0	5	1.0	0	T	Integer	<b>64</b>	<b>5064</b>	In/Out
gOpMode_65	Setpoint for operating mode from uPC calendar, day 6, time zone 5	---	0	5	1.0	0	T	Integer	<b>65</b>	<b>5065</b>	In/Out
gOpMode_66	Setpoint for operating mode from uPC calendar, day 6, time zone 6	---	0	5	1.0	0	T	Integer	<b>66</b>	<b>5066</b>	In/Out
gOpMode_71	Setpoint for operating mode from uPC calendar, day 7, time zone 1	---	0	5	1.0	0	T	Integer	<b>67</b>	<b>5067</b>	In/Out
gOpMode_72	Setpoint for operating mode from uPC calendar, day 7, time zone 2	---	0	5	1.0	0	T	Integer	<b>68</b>	<b>5068</b>	In/Out
gOpMode_73	Setpoint for operating mode from uPC calendar, day 7, time zone 3	---	0	5	1.0	0	T	Integer	<b>69</b>	<b>5069</b>	In/Out



gOpMode_74	Setpoint for operating mode from uPC calendar, day 7, time zone 4	---	0	5	1.0	0	T	Integer	<b>70</b>	<b>5070</b>	In/Out
gOpMode_75	Setpoint for operating mode from uPC calendar, day 7, time zone 5	---	0	5	1.0	0	T	Integer	<b>71</b>	<b>5071</b>	In/Out
gOpMode_76	Setpoint for operating mode from uPC calendar, day 7, time zone 6	---	0	5	1.0	0	T	Integer	<b>72</b>	<b>5072</b>	In/Out
gOpMode_Exc_1	Setpoint for operating mode from uPC calendar, exception period 1	---	0	5	1.0	0	T	Integer	<b>73</b>	<b>5073</b>	In/Out
gOpMode_Exc_2	Setpoint for operating mode from uPC calendar, exception period 2	---	0	5	1.0	0	T	Integer	<b>74</b>	<b>5074</b>	In/Out
gOpMode_Exc_3	Setpoint for operating mode from uPC calendar, exception period 3	---	0	5	1.0	0	T	Integer	<b>75</b>	<b>5075</b>	In/Out
gOpMode_Exc_4	Setpoint for operating mode from uPC calendar, exception period 4	---	0	5	1.0	0	T	Integer	<b>76</b>	<b>5076</b>	In/Out
gOpMode_Exc_5	Setpoint for operating mode from uPC calendar, exception period 5	---	0	5	1.0	0	T	Integer	<b>77</b>	<b>5077</b>	In/Out
gOpMode_Exc_6	Setpoint for operating mode from uPC calendar, exception period 6	---	0	5	1.0	0	T	Integer	<b>78</b>	<b>5078</b>	In/Out
gSched_ExcEndDay_1	uPC calendar - end day for exception period 1	---	1	31	1.0	1	T	Integer	<b>79</b>	<b>5079</b>	In/Out
gSched_ExcEndDay_2	uPC calendar - end day for exception period 2	---	1	31	1.0	1	T	Integer	<b>80</b>	<b>5080</b>	In/Out
gSched_ExcEndDay_3	uPC calendar - end day for exception period 3	---	1	31	1.0	1	T	Integer	<b>81</b>	<b>5081</b>	In/Out
gSched_ExcEndDay_4	uPC calendar - end day for exception period 4	---	1	31	1.0	1	T	Integer	<b>82</b>	<b>5082</b>	In/Out
gSched_ExcEndDay_5	uPC calendar - end day for exception period 5	---	1	31	1.0	1	T	Integer	<b>83</b>	<b>5083</b>	In/Out
gSched_ExcEndDay_6	uPC calendar - end day for exception period 6	---	1	31	1.0	1	T	Integer	<b>84</b>	<b>5084</b>	In/Out
gSched_ExcEndHour_1	uPC calendar - end hour for exception period 1	---	0	23	1.0	0	T	Integer	<b>85</b>	<b>5085</b>	In/Out
gSched_ExcEndHour_2	uPC calendar - end hour for exception period 2	---	0	23	1.0	0	T	Integer	<b>86</b>	<b>5086</b>	In/Out
gSched_ExcEndHour_3	uPC calendar - end hour for exception period 3	---	0	23	1.0	0	T	Integer	<b>87</b>	<b>5087</b>	In/Out
gSched_ExcEndHour_4	uPC calendar - end hour for exception period 4	---	0	23	1.0	0	T	Integer	<b>88</b>	<b>5088</b>	In/Out
gSched_ExcEndHour_5	uPC calendar - end hour for exception period 5	---	0	23	1.0	0	T	Integer	<b>89</b>	<b>5089</b>	In/Out
gSched_ExcEndHour_6	uPC calendar - end hour for exception period 6	---	0	23	1.0	0	T	Integer	<b>90</b>	<b>5090</b>	In/Out
gSched_ExcEndMinute_1	uPC calendar - end minute for exception period 1	---	0	59	1.0	0	T	Integer	<b>91</b>	<b>5091</b>	In/Out



gSched_ExcEndMinute_2	uPC calendar - end minute for exception period 2	---	0	59	1.0	0	T	Integer	<b>92</b>	<b>5092</b>	In/Out
gSched_ExcEndMinute_3	uPC calendar - end minute for exception period 3	---	0	59	1.0	0	T	Integer	<b>93</b>	<b>5093</b>	In/Out
gSched_ExcEndMinute_4	uPC calendar - end minute for exception period 4	---	0	59	1.0	0	T	Integer	<b>94</b>	<b>5094</b>	In/Out
gSched_ExcEndMinute_5	uPC calendar - end minute for exception period 5	---	0	59	1.0	0	T	Integer	<b>95</b>	<b>5095</b>	In/Out
gSched_ExcEndMinute_6	uPC calendar - end minute for exception period 6	---	0	59	1.0	0	T	Integer	<b>96</b>	<b>5096</b>	In/Out
gSched_ExcEndMonth_1	uPC calendar - end month for exception period 1	---	1	12	1.0	1	T	Integer	<b>97</b>	<b>5097</b>	In/Out
gSched_ExcEndMonth_2	uPC calendar - end month for exception period 2	---	1	12	1.0	1	T	Integer	<b>98</b>	<b>5098</b>	In/Out
gSched_ExcEndMonth_3	uPC calendar - end month for exception period 3	---	1	12	1.0	1	T	Integer	<b>99</b>	<b>5099</b>	In/Out
gSched_ExcEndMonth_4	uPC calendar - end month for exception period 4	---	1	12	1.0	1	T	Integer	<b>100</b>	<b>5100</b>	In/Out
gSched_ExcEndMonth_5	uPC calendar - end month for exception period 5	---	1	12	1.0	1	T	Integer	<b>101</b>	<b>5101</b>	In/Out
gSched_ExcEndMonth_6	uPC calendar - end month for exception period 6	---	1	12	1.0	1	T	Integer	<b>102</b>	<b>5102</b>	In/Out
gSched_ExcStartDay_1	uPC calendar - start day for exception period 1	---	1	31	1.0	1	T	Integer	<b>103</b>	<b>5103</b>	In/Out
gSched_ExcStartDay_2	uPC calendar - start day for exception period 2	---	1	31	1.0	1	T	Integer	<b>104</b>	<b>5104</b>	In/Out
gSched_ExcStartDay_3	uPC calendar - start day for exception period 3	---	1	31	1.0	1	T	Integer	<b>105</b>	<b>5105</b>	In/Out
gSched_ExcStartDay_4	uPC calendar - start day for exception period 4	---	1	31	1.0	1	T	Integer	<b>106</b>	<b>5106</b>	In/Out
gSched_ExcStartDay_5	uPC calendar - start day for exception period 5	---	1	31	1.0	1	T	Integer	<b>107</b>	<b>5107</b>	In/Out
gSched_ExcStartDay_6	uPC calendar - start day for exception period 6	---	1	31	1.0	1	T	Integer	<b>108</b>	<b>5108</b>	In/Out
gSched_ExcStartHour_1	uPC calendar - start hour for exception period 1	---	0	23	1.0	0	T	Integer	<b>109</b>	<b>5109</b>	In/Out
gSched_ExcStartHour_2	uPC calendar - start hour for exception period 2	---	0	23	1.0	0	T	Integer	<b>110</b>	<b>5110</b>	In/Out
gSched_ExcStartHour_3	uPC calendar - start hour for exception period 3	---	0	23	1.0	0	T	Integer	<b>111</b>	<b>5111</b>	In/Out
gSched_ExcStartHour_4	uPC calendar - start hour for exception period 4	---	0	23	1.0	0	T	Integer	<b>112</b>	<b>5112</b>	In/Out
gSched_ExcStartHour_5	uPC calendar - start hour for exception period 5	---	0	23	1.0	0	T	Integer	<b>113</b>	<b>5113</b>	In/Out



gSched_ExcStartHour_6	uPC calendar - start hour for exception period 6	---	0	23	1.0	0	T	Integer	<b>114</b>	<b>5114</b>	In/Out
gSched_ExcStartMinute_1	uPC calendar - start minute for exception period 1	---	0	59	1.0	0	T	Integer	<b>115</b>	<b>5115</b>	In/Out
gSched_ExcStartMinute_2	uPC calendar - start minute for exception period 2	---	0	59	1.0	0	T	Integer	<b>116</b>	<b>5116</b>	In/Out
gSched_ExcStartMinute_3	uPC calendar - start minute for exception period 3	---	0	59	1.0	0	T	Integer	<b>117</b>	<b>5117</b>	In/Out
gSched_ExcStartMinute_4	uPC calendar - start minute for exception period 4	---	0	59	1.0	0	T	Integer	<b>118</b>	<b>5118</b>	In/Out
gSched_ExcStartMinute_5	uPC calendar - start minute for exception period 5	---	0	59	1.0	0	T	Integer	<b>119</b>	<b>5119</b>	In/Out
gSched_ExcStartMinute_6	uPC calendar - start minute for exception period 6	---	0	59	1.0	0	T	Integer	<b>120</b>	<b>5120</b>	In/Out
gSched_ExcStartMonth_1	uPC calendar - start month for exception period 1	---	1	12	1.0	1	T	Integer	<b>121</b>	<b>5121</b>	In/Out
gSched_ExcStartMonth_2	uPC calendar - start month for exception period 2	---	1	12	1.0	1	T	Integer	<b>122</b>	<b>5122</b>	In/Out
gSched_ExcStartMonth_3	uPC calendar - start month for exception period 3	---	1	12	1.0	1	T	Integer	<b>123</b>	<b>5123</b>	In/Out
gSched_ExcStartMonth_4	uPC calendar - start month for exception period 4	---	1	12	1.0	1	T	Integer	<b>124</b>	<b>5124</b>	In/Out
gSched_ExcStartMonth_5	uPC calendar - start month for exception period 5	---	1	12	1.0	1	T	Integer	<b>125</b>	<b>5125</b>	In/Out
gSched_ExcStartMonth_6	uPC calendar - start month for exception period 6	---	1	12	1.0	1	T	Integer	<b>126</b>	<b>5126</b>	In/Out
gSched_TmStartH_12	uPC calendar - start hour for day 1, time zone 2	h	0	23	1.0	23	T	Integer	<b>127</b>	<b>5127</b>	In/Out
gSched_TmStartH_13	uPC calendar - start hour for day 1, time zone 3	h	0	23	1.0	23	T	Integer	<b>128</b>	<b>5128</b>	In/Out
gSched_TmStartH_14	uPC calendar - start hour for day 1, time zone 4	h	0	23	1.0	23	T	Integer	<b>129</b>	<b>5129</b>	In/Out
gSched_TmStartH_15	uPC calendar - start hour for day 1, time zone 5	h	0	23	1.0	23	T	Integer	<b>130</b>	<b>5130</b>	In/Out
gSched_TmStartH_16	uPC calendar - start hour for day 1, time zone 6	h	0	23	1.0	23	T	Integer	<b>131</b>	<b>5131</b>	In/Out
gSched_TmStartH_22	uPC calendar - start hour for day 2, time zone 2	h	0	23	1.0	23	T	Integer	<b>132</b>	<b>5132</b>	In/Out
gSched_TmStartH_23	uPC calendar - start hour for day 2, time zone 3	h	0	23	1.0	23	T	Integer	<b>133</b>	<b>5133</b>	In/Out
gSched_TmStartH_24	uPC calendar - start hour for day 2, time zone 4	h	0	23	1.0	23	T	Integer	<b>134</b>	<b>5134</b>	In/Out
gSched_TmStartH_25	uPC calendar - start hour for day 2, time zone 5	h	0	23	1.0	23	T	Integer	<b>135</b>	<b>5135</b>	In/Out



gSched_TmStartH_26	uPC calendar - start hour for day 2, time zone 6	h	0	23	1.0	23	T	Integer	<b>136</b>	<b>5136</b>	In/Out
gSched_TmStartH_32	uPC calendar - start hour for day 3, time zone 2	h	0	23	1.0	23	T	Integer	<b>137</b>	<b>5137</b>	In/Out
gSched_TmStartH_33	uPC calendar - start hour for day 3, time zone 3	h	0	23	1.0	23	T	Integer	<b>138</b>	<b>5138</b>	In/Out
gSched_TmStartH_34	uPC calendar - start hour for day 3, time zone 4	h	0	23	1.0	23	T	Integer	<b>139</b>	<b>5139</b>	In/Out
gSched_TmStartH_35	uPC calendar - start hour for day 3, time zone 5	h	0	23	1.0	23	T	Integer	<b>140</b>	<b>5140</b>	In/Out
gSched_TmStartH_36	uPC calendar - start hour for day 3, time zone 6	h	0	23	1.0	23	T	Integer	<b>141</b>	<b>5141</b>	In/Out
gSched_TmStartH_42	uPC calendar - start hour for day 4, time zone 2	h	0	23	1.0	23	T	Integer	<b>142</b>	<b>5142</b>	In/Out
gSched_TmStartH_43	uPC calendar - start hour for day 4, time zone 3	h	0	23	1.0	23	T	Integer	<b>143</b>	<b>5143</b>	In/Out
gSched_TmStartH_44	uPC calendar - start hour for day 4, time zone 4	h	0	23	1.0	23	T	Integer	<b>144</b>	<b>5144</b>	In/Out
gSched_TmStartH_45	uPC calendar - start hour for day 4, time zone 5	h	0	23	1.0	23	T	Integer	<b>145</b>	<b>5145</b>	In/Out
gSched_TmStartH_46	uPC calendar - start hour for day 4, time zone 6	h	0	23	1.0	23	T	Integer	<b>146</b>	<b>5146</b>	In/Out
gSched_TmStartH_52	uPC calendar - start hour for day 5, time zone 2	h	0	23	1.0	23	T	Integer	<b>147</b>	<b>5147</b>	In/Out
gSched_TmStartH_53	uPC calendar - start hour for day 5, time zone 3	h	0	23	1.0	23	T	Integer	<b>148</b>	<b>5148</b>	In/Out
gSched_TmStartH_54	uPC calendar - start hour for day 5, time zone 4	h	0	23	1.0	23	T	Integer	<b>149</b>	<b>5149</b>	In/Out
gSched_TmStartH_55	uPC calendar - start hour for day 5, time zone 5	h	0	23	1.0	23	T	Integer	<b>150</b>	<b>5150</b>	In/Out
gSched_TmStartH_56	uPC calendar - start hour for day 5, time zone 6	h	0	23	1.0	23	T	Integer	<b>151</b>	<b>5151</b>	In/Out
gSched_TmStartH_62	uPC calendar - start hour for day 6, time zone 2	h	0	23	1.0	23	T	Integer	<b>152</b>	<b>5152</b>	In/Out
gSched_TmStartH_63	uPC calendar - start hour for day 6, time zone 3	h	0	23	1.0	23	T	Integer	<b>153</b>	<b>5153</b>	In/Out
gSched_TmStartH_64	uPC calendar - start hour for day 6, time zone 4	h	0	23	1.0	23	T	Integer	<b>154</b>	<b>5154</b>	In/Out
gSched_TmStartH_65	uPC calendar - start hour for day 6, time zone 5	h	0	23	1.0	23	T	Integer	<b>155</b>	<b>5155</b>	In/Out
gSched_TmStartH_66	uPC calendar - start hour for day 6, time zone 6	h	0	23	1.0	23	T	Integer	<b>156</b>	<b>5156</b>	In/Out
gSched_TmStartH_72	uPC calendar - start hour for day 7, time zone 2	h	0	23	1.0	23	T	Integer	<b>157</b>	<b>5157</b>	In/Out



gSched_TmStartH_73	uPC calendar - start hour for day 7, time zone 3	h	0	23	1.0	23	T	Integer	<b>158</b>	<b>5158</b>	In/Out
gSched_TmStartH_74	uPC calendar - start hour for day 7, time zone 4	h	0	23	1.0	23	T	Integer	<b>159</b>	<b>5159</b>	In/Out
gSched_TmStartH_75	uPC calendar - start hour for day 7, time zone 5	h	0	23	1.0	23	T	Integer	<b>160</b>	<b>5160</b>	In/Out
gSched_TmStartH_76	uPC calendar - start hour for day 7, time zone 6	h	0	23	1.0	23	T	Integer	<b>161</b>	<b>5161</b>	In/Out
gSched_TmStartM_12	uPC calendar - start minute for day 1, time zone 2	min	0	59	1.0	59	T	Integer	<b>162</b>	<b>5162</b>	In/Out
gSched_TmStartM_13	uPC calendar - start minute for day 1, time zone 3	min	0	59	1.0	59	T	Integer	<b>163</b>	<b>5163</b>	In/Out
gSched_TmStartM_14	uPC calendar - start minute for day 1, time zone 4	min	0	59	1.0	59	T	Integer	<b>164</b>	<b>5164</b>	In/Out
gSched_TmStartM_15	uPC calendar - start minute for day 1, time zone 5	min	0	59	1.0	59	T	Integer	<b>165</b>	<b>5165</b>	In/Out
gSched_TmStartM_16	uPC calendar - start minute for day 1, time zone 6	min	0	59	1.0	59	T	Integer	<b>166</b>	<b>5166</b>	In/Out
gSched_TmStartM_22	uPC calendar - start minute for day 2, time zone 2	min	0	59	1.0	59	T	Integer	<b>167</b>	<b>5167</b>	In/Out
gSched_TmStartM_23	uPC calendar - start minute for day 2, time zone 3	min	0	59	1.0	59	T	Integer	<b>168</b>	<b>5168</b>	In/Out
gSched_TmStartM_24	uPC calendar - start minute for day 2, time zone 4	min	0	59	1.0	59	T	Integer	<b>169</b>	<b>5169</b>	In/Out
gSched_TmStartM_25	uPC calendar - start minute for day 2, time zone 5	min	0	59	1.0	59	T	Integer	<b>170</b>	<b>5170</b>	In/Out
gSched_TmStartM_26	uPC calendar - start minute for day 2, time zone 6	min	0	59	1.0	59	T	Integer	<b>171</b>	<b>5171</b>	In/Out
gSched_TmStartM_32	uPC calendar - start minute for day 3, time zone 2	min	0	59	1.0	59	T	Integer	<b>172</b>	<b>5172</b>	In/Out
gSched_TmStartM_33	uPC calendar - start minute for day 3, time zone 3	min	0	59	1.0	59	T	Integer	<b>173</b>	<b>5173</b>	In/Out
gSched_TmStartM_34	uPC calendar - start minute for day 3, time zone 4	min	0	59	1.0	59	T	Integer	<b>174</b>	<b>5174</b>	In/Out
gSched_TmStartM_35	uPC calendar - start minute for day 3, time zone 5	min	0	59	1.0	59	T	Integer	<b>175</b>	<b>5175</b>	In/Out
gSched_TmStartM_36	uPC calendar - start minute for day 3, time zone 6	min	0	59	1.0	59	T	Integer	<b>176</b>	<b>5176</b>	In/Out
gSched_TmStartM_42	uPC calendar - start minute for day 4, time zone 2	min	0	59	1.0	59	T	Integer	<b>177</b>	<b>5177</b>	In/Out
gSched_TmStartM_43	uPC calendar - start minute for day 4, time zone 3	min	0	59	1.0	59	T	Integer	<b>178</b>	<b>5178</b>	In/Out
gSched_TmStartM_44	uPC calendar - start minute for day 4, time zone 4	min	0	59	1.0	59	T	Integer	<b>179</b>	<b>5179</b>	In/Out





gSched_TmStartM_45	uPC calendar - start minute for day 4, time zone 5	min	0	59	1.0	59	T	Integer	<b>180</b>	<b>5180</b>	In/Out
gSched_TmStartM_46	uPC calendar - start minute for day 4, time zone 6	min	0	59	1.0	59	T	Integer	<b>181</b>	<b>5181</b>	In/Out
gSched_TmStartM_52	uPC calendar - start minute for day 5, time zone 2	min	0	59	1.0	59	T	Integer	<b>182</b>	<b>5182</b>	In/Out
gSched_TmStartM_53	uPC calendar - start minute for day 5, time zone 3	min	0	59	1.0	59	T	Integer	<b>183</b>	<b>5183</b>	In/Out
gSched_TmStartM_54	uPC calendar - start minute for day 5, time zone 4	min	0	59	1.0	59	T	Integer	<b>184</b>	<b>5184</b>	In/Out
gSched_TmStartM_55	uPC calendar - start minute for day 5, time zone 5	min	0	59	1.0	59	T	Integer	<b>185</b>	<b>5185</b>	In/Out
gSched_TmStartM_56	uPC calendar - start minute for day 5, time zone 6	min	0	59	1.0	59	T	Integer	<b>186</b>	<b>5186</b>	In/Out
gSched_TmStartM_62	uPC calendar - start minute for day 6, time zone 2	min	0	59	1.0	59	T	Integer	<b>187</b>	<b>5187</b>	In/Out
gSched_TmStartM_63	uPC calendar - start minute for day 6, time zone 3	min	0	59	1.0	59	T	Integer	<b>188</b>	<b>5188</b>	In/Out
gSched_TmStartM_64	uPC calendar - start minute for day 6, time zone 4	min	0	59	1.0	59	T	Integer	<b>189</b>	<b>5189</b>	In/Out
gSched_TmStartM_65	uPC calendar - start minute for day 6, time zone 5	min	0	59	1.0	59	T	Integer	<b>190</b>	<b>5190</b>	In/Out
gSched_TmStartM_66	uPC calendar - start minute for day 6, time zone 6	min	0	59	1.0	59	T	Integer	<b>191</b>	<b>5191</b>	In/Out
gSched_TmStartM_72	uPC calendar - start minute for day 7, time zone 2	min	0	59	1.0	59	T	Integer	<b>192</b>	<b>5192</b>	In/Out
gSched_TmStartM_73	uPC calendar - start minute for day 7, time zone 3	min	0	59	1.0	59	T	Integer	<b>193</b>	<b>5193</b>	In/Out
gSched_TmStartM_74	uPC calendar - start minute for day 7, time zone 4	min	0	59	1.0	59	T	Integer	<b>194</b>	<b>5194</b>	In/Out
gSched_TmStartM_75	uPC calendar - start minute for day 7, time zone 5	min	0	59	1.0	59	T	Integer	<b>195</b>	<b>5195</b>	In/Out
gSched_TmStartM_76	uPC calendar - start minute for day 7, time zone 6	min	0	59	1.0	59	T	Integer	<b>196</b>	<b>5196</b>	In/Out
CURRENT_DAY	Current day	D	1	31	1.0	1	X	Integer	<b>197</b>	<b>5197</b>	In/Out
CURRENT_HOUR	Current hour	h	0	23	1.0	0	X	Integer	<b>198</b>	<b>5198</b>	In/Out
CURRENT_MINUTE	Current minute	min	0	59	1.0	0	X	Integer	<b>199</b>	<b>5199</b>	In/Out
CURRENT_MONTH	Current month	M	1	12	1.0	1	X	Integer	<b>200</b>	<b>5200</b>	In/Out
CURRENT_YEAR	Current year	Y	0	99	1.0	0	X	Integer	<b>201</b>	<b>5201</b>	In/Out

