

# PID500-U

## RS485 MODBUS Addresses

### Read Coil Status

| Address | Hex Address | Variable Name           | Coil status |             | Para Type |
|---------|-------------|-------------------------|-------------|-------------|-----------|
|         |             |                         | 0           | 1           |           |
| 01      | 1           | Temp Unit               | °C          | °F          | R         |
| 02      | 2           | Reverse Scaling         | NO          | YES         | R         |
| 04      | 4           | Relay_1 Mode            | FD          | RE          | R         |
| 05      | 5           | ARW                     | AUTO        | MANUAL      | R         |
| 06      | 6           | Set 2 Type              | ABS         | DEV         | R         |
| 07      | 7           | Alarm_1 Latch           | ON          | OFF         | R         |
| 08      | 8           | Alarm_1 Hold            | ON          | OFF         | R         |
| 09      | 9           | Alarm_1 energize        | ENERGIZE    | DE-ENERGIZE | R         |
| 10      | A           | Alarm_1 ANN             | OFF         | ON          | R         |
| 12      | C           | Sensor Err Level        | LOW         | HIGH        | R         |
| 13      | D           | Alarm_2 Latch           | ON          | OFF         | R         |
| 14      | E           | Alarm_2 Hold            | ON          | OFF         | R         |
| 15      | F           | Alarm_2 energize        | ENERGIZE    | DE-ENERGIZE | R         |
| 16      | 10          | Alarm_2 ANN             | OFF         | ON          | R         |
| 17      | 11          | Heat_Cool Mode          | NO          | YES         | R         |
| 18      | 12          | Profile Status          | NO          | YES         | R         |
| 19      | 13          | Sensor open condition   | AUTO        | MANUAL      | R         |
| 20      | 14          | Standby mode            | NO          | YES         | R         |
| 21      | 15          | Program access settings | LEVEL       | ONLINE      | R         |
| 26      | 1A          | Set mode_zone           | ALL         | ZONE        | R         |

# INPUT REGISTER

## Variables in INT & DINT

| Address | Hex Address | Parameter          | Signed/Unsigned | Data Structure | Range    | Description   |
|---------|-------------|--------------------|-----------------|----------------|----------|---|
| 30001   | 1           | MAIN OUTPUT STATUS | Unsigned        | DINT           | 0 to 2   | Relay = 1<br>SSR = 0<br>AOUT = 2  |
| 30003   | 3           | ELASPED_SOAK_TIME  | Unsigned        | DINT           |          | Soak_time   |
| 30005   | 5           | OUTPUT PERCENTAGE  | Unsigned        | DINT           | 0 to 100 | Output Percentage = %pid  |
| 30007   | 7           | FINAL PV           | Signed          | DINT           |          | Final PV  |
| 30009   | 9           | RAMP               | Signed          | DINT           |          | Remote Setpoint   |
| 30011   | B           | FINAL PV           | Signed          | INT            |          | Final PV  |
| 30012   | C           | MAIN OUTPUT STATUS | Signed          | INT            | 0 to 2   | If Output == Relay/SSR<br>Main Output Status = 1/ 0<br>Else If Output == AOUT<br>Main Output Status = 2 |
| 30013   | D           | ELASPED_SOAK_TIME  | Signed          | INT            |          | Soak_time   |
| 30014   | E           | OUTPUT PERCENTAGE  | Signed          | INT            | 0 to 100 | OUTPUT PERCENTAGE = %pid  |
| 30015   | F           | RAMP               | Signed          | INT            |          | If Profile == Yes → RAMP = Profile_Runtime_ramp<br>If Profile == No → RAMP = ramp                       |

## Variables in Float

| Address | Hex Address | Parameter         | Data Structure | Range        | Description              |
|---------|-------------|-------------------|----------------|--------------|--------------------------|
| 30064   | 40          | OUTPUT PERCENTAGE | FLOAT          | 0.0 to 100.0 | Output Percentage = %pid |
| 30066   | 42          | FINAL PV          | FLOAT          |              | Final PV                 |
| 30068   | 44          | RAMP              | FLOAT          |              | Remote Setpoint          |

## HOLDING REGISTER

| Address | Hex Address | Parameter         | Data Size (Data type) | Signed/Unsigned | Para type | Range                           |
|---------|-------------|-------------------|-----------------------|-----------------|-----------|---------------------------------|
| 40032   | 20          | Set 1_value       | 4 Byte (DINT)         | Signed          | R/W       | -199 to 9999                    |
| 40034   | 22          | Set 2_value       | 4 Byte (DINT)         | Unsigned        | R/W       | -199 to 9999                    |
| 40036   | 24          | Set 3_value       | 4 Byte (DINT)         | Signed          | R/W       | -199 to 9999                    |
| 40064   | 40          | DSCL              | 2 Byte (INT)          | Signed          | R/W       | -1999 to 9999                   |
| 40065   | 41          | ISCL              | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 10.00                      |
| 40066   | 42          | DSCH              | 2 Byte (INT)          | Signed          | R/W       | -1999 to 9999                   |
| 40067   | 43          | ISCH              | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 10.00                      |
| 40068   | 44          | SPHL              | 2 Byte (INT)          | Signed          | R/W       | -1999 to 9999                   |
| 40069   | 45          | SPLL              | 2 Byte (INT)          | Signed          | R/W       | -1999 to 9999                   |
| 40072   | 48          | ZONE_SP_1         | 2 Byte (INT)          | Signed          | R/W       | (SPLL TO SPHL)<br>-1999 to 9999 |
| 40073   | 49          | ZONE_SP_2         | 2 Byte (INT)          | Signed          | R/W       | -1999 to 9999                   |
| 40074   | 4A          | ZONE_SP_3         | 2 Byte (INT)          | Signed          | R/W       | -1999 to 9999                   |
| 40075   | 4B          | ZONE_SP_4         | 2 Byte (INT)          | Signed          | R/W       | -1999 to 9999                   |
| 40076   | 4C          | Pb-1              | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 400.0                      |
| 40076   | 4C          | ZONE_PB_1         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 400.0                      |
| 40077   | 4D          | ZONE_PB_2         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 400.0                      |
| 40078   | 4E          | ZONE_PB_3         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 400.0                      |
| 40079   | 4F          | ZONE_PB_4         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 400.0                      |
| 40080   | 50          | It-1              | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 3600                       |
| 40080   | 50          | ZONE_IT_1         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 3600                       |
| 40081   | 51          | ZONE_IT_2         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 3600                       |
| 40082   | 52          | ZONE_IT_3         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 3600                       |
| 40083   | 53          | ZONE_IT_4         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 3600                       |
| 40084   | 54          | dt-1              | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 200                        |
| 40084   | 54          | ZONE_DR_1         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 200                        |
| 40085   | 55          | ZONE_DR_2         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 200                        |
| 40086   | 56          | ZONE_DR_3         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 200                        |
| 40087   | 57          | ZONE_DR_4         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 200                        |
| 40088   | 58          | Timer             | 2 Byte (INT)          | Unsigned        | R/W       | 0.0 to 99.9                     |
| 40089   | 59          | Cycle time_user   | 2 Byte (INT)          | Unsigned        | R/W       | 0.1 to 100.0                    |
| 40090   | 5A          | Anti reset windup | 2 Byte (INT)          | Unsigned        | R/W       | 20.0 to 100.0                   |

| Address | Hex Address | Parameter         | Data Size (Data type) | Signed/Unsigned | Para type | Range   |
|---------|-------------|-------------------|-----------------------|-----------------|-----------|---|
| 40091   | 5B          | Manual reset      | 2 Byte (INT)          | Signed          | R/W       | (For 0.1 resolution)<br>-99.9 to 99.9<br>(for 1 resolution)<br>-99 to 99<br>(for analog input)<br>-999 to 999   |
| 40092   | 5C          | Hysteresis_Set1   | 2 Byte (INT)          | Unsigned        | R/W       | 0.1 to 99.9   |
| 40095   | 5F          | PB-C              | 2 Byte (INT)          | Unsigned        | R/W       | 0.0 to 400.0  |
| 40096   | 60          | Cycle time_cool   | 2 Byte (INT)          | Unsigned        | R/W       | 0.1 to 100.0  |
| 40097   | 61          | Hysteresis_Set2   | 2 Byte (INT)          | Unsigned        | R/W       | 0.1 to 99.9   |
| 40098   | 62          | A-LO_SET2         | 2 Byte (INT)          | Signed          | R/W       | -1999 to 9999   |
| 40099   | 63          | A-HI_SET2         | 2 Byte (INT)          | Signed          | R/W       | -1999 to 9999   |
| 40102   | 66          | Hysteresis_Set3   | 2 Byte (INT)          | Unsigned        | R/W       | (for tc / rtd)<br>0.1 to 99.9<br>(for analog input)<br>1 to 99  |
| 40105   | 69          | Soft start time   | 2 Byte (INT)          | Unsigned        | R/W       | OFF=0 to 999  |
| 40106   | 6A          | Ramp rate         | 2 Byte (INT)          | Unsigned        | R/W       | 0001 to 9999  |
| 40107   | 6B          | Soak time         | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 1440   |
| 40108   | 6C          | PV bias           | 2 Byte (INT)          | Signed          | R/W       | (for tc / rtd)<br>-999 to 999<br>(for AIN models<br>decimal point as per<br>selected) -999 to 99.9  |
| 40111   | 6F          | User ID           | 2 Byte (INT)          | Unsigned        | R/W       | 0 to 9999   |
| 40114   | 72          | Set 1_value       | 2 Byte (INT)          | Signed          | R/W       | -199 to 9999  |
| 40115   | 73          | Set 2_value       | 2 Byte (INT)          | Signed          | R/W       | -199 to 9999  |
| 40116   | 74          | Set 3_value       | 2 Byte (INT)          | Signed          | R/W       | -199 to 9999  |
| 40128   | 80          | Special dsp_Index | 1 Byte (INT)          | Unsigned        | R/W       | SET1=0, SET2=1,<br>SET3=2, TUNE=4<br>HAND=5, PB-2=6,<br>IT-2=7, DT-2=8,<br>Manual_Offset=9,<br>PB-C=10, R-SP=11,<br>PERC=12, Soak=13<br>AL-1=16, AL-2 =17,<br>Profile=21,<br>Profile No=22,<br>Step no=23,<br>Time-remaining=24,<br>Time Elapsed=25,<br>BLNK=29 |

| Address | Hex Address | Parameter            | Data Size (Data type) | Signed/Unsigned | Para type | Range   |
|---------|-------------|----------------------|-----------------------|-----------------|-----------|---|
| 40129   | 81          | Input Type           | 1 Byte (INT)          | Unsigned        | R/W       | J =0, K =1, T=2, R=3, S=4, C=5, E=6, B=7, N=8, L=9, U=10, Y=11, PTNL=12, PT100=13, AV=14, 10V=15, 20mA=16 |
| 40130   | 82          | Resolution           | 1 Byte (INT)          | Unsigned        | R/W       | TC/RTD:1=0, 0.1=1<br>Analog I/p: 1=0, 0.1=1,0.01=2, 0.001=3   |
| 40133   | 85          | Auto tune            | 1 Byte (INT)          | Unsigned        | R/W       | OFF=0, ST=1, AT=2, ADT=3  |
| 40134   | 86          | Tune%                | 1 Byte (INT)          | Unsigned        | R/W       | P.AU:75 to100   |
| 40135   | 87          | Power Low_set1       | 1 Byte (INT)          | Signed          | R/W       | 0 to 100<br>(for heat cool mode)<br>-100 to 100   |
| 40136   | 88          | Power High_set1      | 1 Byte (INT)          | Unsigned        | R/W       | output power<br>low limit to 100  |
| 40137   | 89          | Set mode_zone        | 1 Byte (INT)          | Unsigned        | R/W       | ALL=0, ZONE=1   |
| 40138   | 8A          | Zone_number          | 1 Byte (INT)          | Unsigned        | R/W       | 1=0, 2=1, 3=2, 4=3  |
| 40139   | 8B          | DAC                  | 1 Byte (INT)          | Unsigned        | R/W       | 0.5 to 5.0  |
| 40140   | 8C          | Cycle time           | 1 Byte (INT)          | Unsigned        | R/W       | User=1, USP.F=2<br>A15.0=0  |
| 40141   | 8D          | Hysteresis bias_Set1 | 1 Byte (INT)          | Signed          | R/W       | -9.9 to 99  |
| 40144   | 90          | Set2 mode            | 1 Byte (INT)          | Unsigned        | R/W       | None=0, Fd=1, Rev=2, Alm=3  |
| 40145   | 91          | Alarm 1_mode         | 1 Byte (INT)          | Unsigned        | R/W       | OFF=0, DUHI=1, DULO=2, BAND=3, FSHI=4, FSLO=5, S.brk=6  |
| 40146   | 92          | Hysteresis bias_Set2 | 1 Byte (INT)          | Signed          | R/W       | (for tc / rtd)<br>-9.9 to 9.9<br>(for analog input)<br>-99 to 99  |
| 40149   | 95          | Alarm2_mode          | 1 Byte (INT)          | Unsigned        | R/W       | OFF=0, DUHI=1, DULO=2, BAND=3, FSHI=4, FSLO=5, S.brk=6  |
| 40150   | 96          | Hysteresis bias_Set3 | 1 Byte (INT)          | Signed          | R/W       | (for tc / rtd)<br>-9.9 to 9.9<br>(for analog input)<br>-99 to 99  |
| 40153   | 99          | Main output          | 1 Byte (INT)          | Unsigned        | R/W       | RLY 1=0, AOUT=1, SSR =2   |

| Address | Hex Address | Parameter               | Data Size (Data type) | Signed/Unsigned | Para type | Range   |
|---------|-------------|-------------------------|-----------------------|-----------------|-----------|---|
| 40154   | 9A          | Aout                    | 1 Byte (INT)          | Unsigned        | R/W       | 4-20mA=0,<br>0-20mA=1<br>0-5V=2, 0-10V=3        |
| 40155   | 9B          | Hand%                   | 1 Byte (INT)          | Unsigned        | R/W       | OFF:0 to 100                                    |
| 40156   | 9C          | RAMP                    | 1 Byte (INT)          | Unsigned        | R/W       | OFF=1, HOLD=2,<br>ON=0                          |
| 40157   | 9D          | Sensor fail power level | 1 Byte (INT)          | Signed          | R/W       | 0 to 100<br>(For heat cool mode)<br>-100 to 100 |
| 40158   | 9E          | Filter time constant    | 1 Byte (INT)          | Unsigned        | R/W       | Off=0, 1 to 99                                  |
| 40159   | 9F          | Output power dampening  | 1 Byte (INT)          | Unsigned        | R/W       | Off=0, 1 to 250                                 |
| 40160   | A0          | Rounding increment      | 1 Byte (INT)          | Unsigned        | R/W       | (for tc / rtd)<br>0.1 to 10.0                   |
| 40163   | A3          | Lock_access_SET1        | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40164   | A4          | Lock_access_SET2        | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40165   | A5          | Lock_access_SET3        | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40166   | A6          | Lock_access_AT          | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40167   | A7          | Lock_access_HAND%       | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40168   | A8          | Lock_access_PB_main     | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40169   | A9          | Lock_access_IT_main     | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40170   | AA          | Lock_access_DR_main     | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40171   | AB          | Lock_access_Manual_RST  | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40172   | AC          | Lock_access_PB_AUX      | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40173   | AD          | Lock_access_I0          | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40174   | AE          | Lock_access_I1          | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |
| 40175   | AF          | Lock_access_I2          | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1,<br>LOCK=2                       |

| Address | Hex Address | Parameter              | Data Size (Data type) | Signed/Unsigned | Para type | Range                  |
|---------|-------------|------------------------|-----------------------|-----------------|-----------|------------------------|
| 40176   | B0          | Lock_access_l3         | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1, LOCK=2 |
| 40177   | B1          | Lock_access_l4         | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1, LOCK=2 |
| 40178   | B2          | Lock_access_l9         | 1 Byte (INT)          | Unsigned        | R/W       | UNLK=0, READ=1, LOCK=2 |
| 40192   | C0          | Profile target temp_1  | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40194   | C2          | Profile target temp_2  | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40196   | C4          | Profile target temp_3  | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40198   | C6          | Profile target temp_4  | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40200   | C8          | Profile target temp_5  | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40202   | CA          | Profile target temp_6  | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40204   | CC          | Profile target temp_7  | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40206   | CE          | Profile target temp_8  | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40208   | D0          | Profile target temp_9  | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40210   | D2          | Profile target temp_10 | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40212   | D4          | Profile target temp_11 | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40214   | D6          | Profile target temp_12 | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40216   | D8          | Profile target temp_13 | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40218   | DA          | Profile target temp_14 | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40220   | DC          | Profile target temp_15 | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40222   | DE          | Profile target temp_16 | 4 Byte (DINT)         | Unsigned        | R/W       | SPLL TO SPHL           |
| 40232   | E8          | Profile target temp_1  | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL           |
| 40233   | E9          | Profile target temp_2  | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL           |

| Address | Hex Address | Parameter              | Data Size (Data type) | Signed/Unsigned | Para type | Range        |
|---------|-------------|------------------------|-----------------------|-----------------|-----------|--------------|
| 40234   | EA          | Profile target temp_3  | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40235   | EB          | Profile target temp_4  | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40236   | EC          | Profile target temp_5  | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40237   | ED          | Profile target temp_6  | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40238   | EE          | Profile target temp_7  | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40239   | EF          | Profile target temp_8  | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40240   | F0          | Profile target temp_9  | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40241   | F1          | Profile target temp_10 | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40242   | F2          | Profile target temp_11 | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40243   | F3          | Profile target temp_12 | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40244   | F4          | Profile target temp_13 | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40245   | F5          | Profile target temp_14 | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40246   | F6          | Profile target temp_15 | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40247   | F7          | Profile target temp_16 | 2 Byte (INT)          | Signed          | R/W       | SPLL TO SPHL |
| 40256   | 100         | Profile ramp time_1    | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959 |
| 40257   | 101         | Profile ramp time_2    | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959 |
| 40258   | 102         | Profile ramp time_3    | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959 |
| 40259   | 103         | Profile ramp time_4    | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959 |
| 40260   | 104         | Profile ramp time_5    | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959 |
| 40261   | 105         | Profile ramp time_6    | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959 |
| 40262   | 106         | Profile ramp time_7    | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959 |



| Address | Hex Address | Parameter              | Data Size (Data type) | Signed/Unsigned | Para type | Range                     |
|---------|-------------|------------------------|-----------------------|-----------------|-----------|---------------------------|
| 40263   | 107         | Profile ramp time_8    | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959              |
| 40264   | 108         | Profile ramp time_9    | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959              |
| 40265   | 109         | Profile ramp time_10   | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959              |
| 40266   | 10A         | Profile ramp time_11   | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959              |
| 40267   | 10B         | Profile ramp time_12   | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959              |
| 40268   | 10C         | Profile ramp time_13   | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959              |
| 40269   | 10D         | Profile ramp time_14   | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959              |
| 40270   | 10E         | Profile ramp time_15   | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959              |
| 40271   | 10F         | Profile ramp time_16   | 2 Byte (INT)          | Unsigned        | R/W       | 0000 TO 9959              |
| 40320   | 140         | Full Profile_rpt       | 1 Byte (INT)          | Unsigned        | R/W       | 0 to 99                   |
| 40321   | 141         | Profile number         | 1 Byte (INT)          | Unsigned        | R/W       | 1 to 8                    |
| 40322   | 142         | Single Profile_rpt     | 1 Byte (INT)          | Unsigned        | R/W       | 0 to 99                   |
| 40323   | 143         | Profile pdn_resume     | 1 Byte (INT)          | Unsigned        | R/W       | ARST=0, STOP=1, RESU=2    |
| 40324   | 144         | Profile_link           | 1 Byte (INT)          | Unsigned        | R/W       | NO=08                     |
| 40325   | 145         | Profile deviation_hold | 1 Byte (INT)          | Unsigned        | R/W       | EN=0, DS=1                |
| 40326   | 146         | Profile alarm_duration | 1 Byte (INT)          | Unsigned        | R/W       | 0 to 99                   |
| 40327   | 147         | Profile start_stepno   | 1 Byte (INT)          | Unsigned        | R/W       | 1 to 16                   |
| 40328   | 148         | Profile number_step    | 1 Byte (INT)          | Unsigned        | R/W       | 1 to 16                   |
| 40331   | 14B         | Profile Aux output_1   | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40332   | 14C         | Profile Aux output_2   | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40333   | 14D         | Profile Aux output_3   | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40334   | 14E         | Profile Aux output_4   | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40335   | 14F         | Profile Aux output_5   | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |

| Address | Hex Address | Parameter             | Data Size (Data type) | Signed/Unsigned | Para type | Range                     |
|---------|-------------|-----------------------|-----------------------|-----------------|-----------|---------------------------|
| 40336   | 150         | Profile Aux output_6  | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40337   | 151         | Profile Aux output_7  | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40338   | 152         | Profile Aux output_8  | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40339   | 153         | Profile Aux output_9  | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40340   | 154         | Profile Aux output_10 | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40341   | 155         | Profile Aux output_11 | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40342   | 156         | Profile Aux output_12 | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40343   | 157         | Profile Aux output_13 | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40344   | 158         | Profile Aux output_14 | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40345   | 159         | Profile Aux output_15 | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40346   | 15A         | Profile Aux output_16 | 1 Byte (INT)          | Unsigned        | R/W       | ON=0, OFF=1, NA=2, ALRM=3 |
| 40351   | 15F         | Profile RUN           | 2 Byte (INT)          | unsigned        | R/W       | STOP= 0, RUN=1, HOLD=2    |

## FLOAT

| Address | Hex Address | Parameter                | Data Size | Data Structure | Para type | Range   |
|---------|-------------|--------------------------|-----------|----------------|-----------|---|
| 400512  | 200         | Set 1_value              | 4 Byte    | FLOAT          | R/W       | -199.0 to SPHL  |
| 400514  | 202         | Set 2_value              | 4 Byte    | FLOAT          | R/W       | -199.0 to SPHL  |
| 400516  | 204         | Set 3_value              | 4 Byte    | FLOAT          | R/W       | -199.0 to SPHL  |
| 400544  | 220         | DSCL                     | 4 Byte    | FLOAT          | R/W       | -1999 to DSCH   |
| 400546  | 222         | DSCH                     | 4 Byte    | FLOAT          | R/W       | DSCL to 9999  |
| 400556  | 22C         | ZONE_SP_1                | 4 Byte    | FLOAT          | R/W       | (SPLL TO SPHL)<br>-1999 to 9999   |
| 400558  | 22E         | ZONE_SP_2                | 4 Byte    | FLOAT          | R/W       | -1999 to 9999   |
| 400560  | 230         | ZONE_SP_3                | 4 Byte    | FLOAT          | R/W       | -1999 to 9999   |
| 400562  | 232         | ZONE_SP_4                | 4 Byte    | FLOAT          | R/W       | -1999 to 9999   |
| 400564  | 234         | Pb-1                     | 4 Byte    | FLOAT          | R/W       | 0 to 400.0  |
| 400564  | 234         | ZONE_PB_1                | 4 Byte    | FLOAT          | R/W       | 0 to 400.0  |
| 400566  | 236         | ZONE_PB_2                | 4 Byte    | FLOAT          | R/W       | 0 to 400.0  |
| 400568  | 238         | ZONE_PB_3                | 4 Byte    | FLOAT          | R/W       | 0 to 400.0  |
| 400570  | 23A         | ZONE_PB_4                | 4 Byte    | FLOAT          | R/W       | 0 to 400.0  |
| 400572  | 23C         | Manual reset             | 4 Byte    | FLOAT          | R/W       | (For 0.1 resolution)-<br>-99.9 to 99.9<br>(for 1 resolution)<br>-99 to 99 (for analog<br>input) -999 to 999 |
| 400574  | 23E         | Hysteresis_Set1          | 4 Byte    | FLOAT          | R/W       | 0.1 to 99.9   |
| 400580  | 244         | PB-C                     | 4 Byte    | FLOAT          | R/W       | 0.0 to 400.0  |
| 400582  | 246         | Hysteresis_Set2          | 4 Byte    | FLOAT          | R/W       | 0.1 to 99.9   |
| 400584  | 248         | A-LO_SET2                | 4 Byte    | FLOAT          | R/W       | -1999 to 9999   |
| 400586  | 24A         | A-HI_SET2                | 4 Byte    | FLOAT          | R/W       | -1999 to 9999   |
| 400592  | 250         | Hysteresis_Set3          | 4 Byte    | FLOAT          | R/W       | (for tc / rtd)<br>0.1 to 99.9<br>(for analog input)<br>1 to 99  |
| 400598  | 256         | Ramp rate                | 4 Byte    | FLOAT          | R/W       | 0001 to 9999  |
| 400600  | 258         | PV bias                  | 4 Byte    | FLOAT          | R/W       | (for tc / rtd)<br>-999 to 999<br>(for AIN models<br>decimal point as per<br>selected)<br>-999 to 99.9       |
| 400704  | 2C0         | Profile target<br>temp_1 | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |

| Address | Hex Address | Parameter              | Data Size | Data Structure | Para type | Range         |
|---------|-------------|------------------------|-----------|----------------|-----------|---------------|
| 400706  | 2C2         | Profile target temp_2  | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400708  | 2C4         | Profile target temp_3  | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400710  | 2C6         | Profile target temp_4  | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400712  | 2C8         | Profile target temp_5  | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400714  | 2CA         | Profile target temp_6  | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400716  | 2CC         | Profile target temp_7  | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400718  | 2CE         | Profile target temp_8  | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400720  | 2D0         | Profile target temp_9  | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400722  | 2D2         | Profile target temp_10 | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400724  | 2D4         | Profile target temp_11 | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400726  | 2D6         | Profile target temp_12 | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400728  | 2D8         | Profile target temp_13 | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400730  | 2DA         | Profile target temp_14 | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400732  | 2DC         | Profile target temp_15 | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400734  | 2DE         | Profile target temp_16 | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400768  | 100         | Profile ramp time_1    | 4 Byte    | FLOAT          | R/W       | SPLL TO SPHL  |
| 400770  | 101         | Profile ramp time_2    | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400772  | 102         | Profile ramp time_3    | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400774  | 103         | Profile ramp time_4    | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400776  | 104         | Profile ramp time_5    | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400778  | 105         | Profile ramp time_6    | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400780  | 106         | Profile ramp time_7    | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |

| Address | Hex Address | Parameter            | Data Size | Data Structure | Para type | Range         |
|---------|-------------|----------------------|-----------|----------------|-----------|---------------|
| 400782  | 107         | Profile ramp time_8  | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400784  | 108         | Profile ramp time_9  | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400786  | 109         | Profile ramp time_10 | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400788  | 10A         | Profile ramp time_11 | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400790  | 10B         | Profile ramp time_12 | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400792  | 10C         | Profile ramp time_13 | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400794  | 10D         | Profile ramp time_14 | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400796  | 10E         | Profile ramp time_15 | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |
| 400798  | 10F         | Profile ramp time_16 | 4 Byte    | FLOAT          | R/W       | 0000 TO 99.59 |

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