technagon

# Modbus Server

| Validity | |
|---|---|
| Technagon TE-P5 / TE-P7 | |
| Technagon TEP4/ TEP4HAK/ TEW3/ TEW4/ TEP8 | |

| Software Version (SV) |
|---|
| from Technagon V73 \| partly from V78 |
| all \| partly from Technagon OS-2.3.1 (0.0.10) |
| Version Modbus server (slave) 1.0 up to V77 \| OS 2.3.0 (0.0.9) |

| Prerequisites | |
|---|---|
| Version Modbus-Server (Slave) | 1.1 |
| port | 502 |
| read | modbus function code 0x03 |
| write | modbus function code 0x06 |

| Units | |
|---|---|
| mA | = A/1000 |
| dV | = V/10 |
| bp | = percent/100 |

## Charging station

| register (hex) | register (dez) | words | Data type | Values | r/w | description | example | | SV TE-P5 / TE-P7 | SV TEP4/ TEP4HAK/ TEW3/ TEW4/ TEP8 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0000 | 0 | 5 | string | technagon | r | vendor | 7465, 6368, 6E61, 676F, 6E00 | =l23:l30 = technagon | from V73 | all |
| 0005 | 5 | 1 | uint16 | 0 – TE-P5/TE-P7/TEP4/ TEP4HAK/TEW3/TEW4/ TEP8 | r | device | 0000 | = 0 | from V73 | all |
| 0006 | 6 | 1 | uint16 | | r | modbus register layout major version | 0001 | = 1 | from V73 | all |
| 0007 | 7 | 1 | uint16 | | r | modbus register layout minor version | 0000 | = 0 | from V73 | all |
| 0008 | 8 | 2 | uint32 | | r | station serial number | 05F5, EA88 | = 100002440 | from V73 | all |
| 000A | 10 | 1 | uint16 | | | reserved | | | from V73 | all |
| 000B | 11 | 1 | uint16 | | r | max current (mA) | F618 7D00 3E80 2710 | = 63000 = 32000 = 16000 = 10000 | from V73 | all |
| 000C | 12 | 1 | uint16 | | r | number of evses | 0002 | = 2 | from V73 | all |

# Modbus Server

## Charging point 1

| register (hex) | register (dez) | words | Data type | Values | r/w | description | example | | SV TE-P5 / TE-P7/ | SV TEP4/ TEP4HAK/ TEW3/ TEW4/ TEP8 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1000 | 4096 | 2 | uint32 | | r | evse serial number | 0000, 0000 | | > = V73 | all |
| 1002 | 4098 | 1 | uint16 | 0 – Type 2<br>1 – Type F<br>2 – CCS | r | evse active connector | 0000<br>0001 | = Type 2<br>= Type F | > = V73 | all |
| 1003 | 4099 | 1 | uint16 | 0 – Unavailable<br>1 – Available<br>2 – Preparing<br>3 – Charging<br>4 – EVSE Suspended<br>(WebUI: < 6A max. power)<br>5 – EV Suspended (state B)<br>6 – Finishing<br>10 – Reserved<br>99 – Faulted | r | evse status | 0000<br>0001<br>0002<br>0003<br>0004<br><br>0005<br>0006<br>000A<br>0063 | = Unavailable<br>= Available<br>= Preparing<br>= Charging<br>= EVSE Suspended<br><br>= EV Suspended<br>= Finishing<br>= Reserved<br>= Faulted | > = V73 | all |
| 1004 | 4100 | 4 | uint64 | | r | evse status last updated (UNIX timestamp) | 0000, 0000, 630D, B5C3 | 30.08.2022  09:01:23 | > = V73 | all |
| 1008 | 4104 | 1 | uint16 | | r | min current (mA) | 1770 | = 6000 | > = V73 | all |
| 1009 | 4105 | 1 | uint16 | | r | max current (mA): is required by set current (percentage) | 7D00 | = 32000 | > = V73 | all |
| 100A | 4106 | 1 | uint16 | | r | current offered (mA) | 7B0C<br>3E80 | = 31500<br>= 16000 | > = V73 | all |
| 100B | 4107 | 1 | uint16 | | r | voltage L1 (dV) | 08FC | = 2300 | > = V73 | all |
| 100C | 4108 | 1 | uint16 | | r | voltage L2 (dV) | 08FC | = 2300 | > = V73 | all |
| 100D | 4109 | 1 | uint16 | | r | voltage L3 (dV) | 08FC | = 2300 | > = V73 | all |
| 100E | 4110 | 1 | uint16 | | r | power factor L1 (bp) | 2328 | = 9000 | > = V73 | all |
| 100F | 4111 | 1 | uint16 | | r | power factor L2 (bp) | 2328 | = 9000 | > = V73 | all |
| 1010 | 4112 | 1 | uint16 | | r | power factor L3 (bp) | 2328 | = 9000 | > = V73 | all |
| 1011 | 4113 | 1 | uint16 | | r | current L1 (mA) | 1AB8 | = 6840 | > = V73 | all |
| 1012 | 4114 | 1 | uint16 | | r | current L2 (mA) | 1AB8 | = 6840 | > = V73 | all |
| 1013 | 4115 | 1 | uint16 | | r | current L3 (mA) | 1AB8 | = 6840 | > = V73 | all |
| 1014 | 4116 | 1 | uint16 | | r | power L1 (W) | 0E22 | = 3618 | > = V78 | > = OS-2.3.1 (0.0.10) |
| 1015 | 4117 | 1 | uint16 | | r | power L2 (W) | 0E22 | = 3618 | | |
| 1016 | 4118 | 1 | uint16 | | r | power L3 (W) | 0E22 | = 3618 | | |
| 1017 | 4119 | 1 | uint16 | | r | power (W) | 3B27 | = 15143 | | |
| 1018 | 4120 | 232 | uint16 | | | reserved | | | | |
| 1100 | 4352 | 1 | uint16 | | rw | set current (bp)<br>- refers to max current<br>- lowest value of set current registers is used | 2710 | = 10000 | > = V73 | all |
| 1101 | 4353 | 1 | uint16 | | rw | set current (mA)<br>- values above max current are ignored<br>- lowest value of set current registers is used | 7D00 | = 32000 | > = V73 | all |
| 1102 | 4354 | 1 | uint16 | | rw | fallback current (mA) | 0000 | = 0 | > = V73 | all |
| 1103 | 4355 | 1 | uint16 | 0 – fallback inactive<br>> 0 – offline time after which fallback current is used | rw | fallback timeout (s) | 0000 | = 0 (OFF) | > = V73 | all |

# Modbus Server

## Charging point 2

| register (hex) | register (dez) | words | Data type | Values | r/w | description | example | | SV TE-P5 / TE-P7/ | SV TEP4/ TEP4HAK/ TEW3/ TEW4/ TEP8 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2000 | 8192 | 2 | uint32 | | r | evse serial number | 0000, 0000 | | > = V73 | all |
| 2002 | 8194 | 1 | uint16 | 0 – Type 2<br>1 – Type F<br>2 – CCS | r | evse active connector | 0000<br>0001 | = Type 2<br>= Type F | > = V73 | all |
| 2003 | 8195 | 1 | uint16 | 0 – Unavailable<br>1 – Available<br>2 – Preparing<br>3 – Charging<br>4 – EVSE Suspended<br>(WebUI: < 6A max. power)<br>5 – EV Suspended (state B)<br>6 – Finishing<br>10 – Reserved<br>99 – Faulted | r | evse status | 0000<br>0001<br>0002<br>0003<br>0004<br><br>0005<br>0006<br>000A<br>0063 | = Unavailable<br>= Available<br>= Preparing<br>= Charging<br>= EVSE Suspended<br><br>= EV Suspended<br>= Finishing<br>= Reserved<br>= Faulted | > = V73 | all |
| 2004 | 8196 | 4 | uint64 | | r | evse status last updated (UNIX timestamp) | 0000, 0000, 630D, DC98 | 30.08.2022 11:47:00 | > = V73 | all |
| 2008 | 8200 | 1 | uint16 | | r | min current (mA) | 1770 | = 6000 | > = V73 | all |
| 2009 | 8201 | 1 | uint16 | | r | max current (mA): is required by set current (percentage) | 7D00 | = 32000 | > = V73 | all |
| 200A | 8202 | 1 | uint16 | | r | current offered (mA) | 7B0C<br>3E80 | = 31500<br>= 16000 | > = V73 | all |
| 200B | 8203 | 1 | uint16 | | r | voltage L1 (dV) | 08FC | = 2300 | > = V73 | all |
| 200C | 8204 | 1 | uint16 | | r | voltage L2 (dV) | 08FC | = 2300 | > = V73 | all |
| 200D | 8205 | 1 | uint16 | | r | voltage L3 (dV) | 08FC | = 2300 | > = V73 | all |
| 200E | 8206 | 1 | uint16 | | r | power factor L1 (bp) | 2328 | = 9000 | > = V73 | all |
| 200F | 8207 | 1 | uint16 | | r | power factor L2 (bp) | 2328 | = 9000 | > = V73 | all |
| 2010 | 8208 | 1 | uint16 | | r | power factor L3 (bp) | 2328 | = 9000 | > = V73 | all |
| 2011 | 8209 | 1 | uint16 | | r | current L1 (mA) | 1AB8 | = 6840 | > = V73 | all |
| 2012 | 8210 | 1 | uint16 | | r | current L2 (mA) | 1AB8 | = 6840 | > = V73 | all |
| 2013 | 8211 | 1 | uint16 | | r | current L3 (mA) | 1AB8 | = 6840 | > = V73 | all |
| 2014 | 8212 | 1 | uint16 | | r | power L1 (W) | 0E22 | = 3618 | > = V78 | > = OS-2.3.1 (0.0.10) |
| 2015 | 8213 | 1 | uint16 | | r | power L2 (W) | 0E22 | = 3618 | | |
| 2016 | 8214 | 1 | uint16 | | r | power L3 (W) | 0E22 | = 3618 | | |
| 2017 | 8215 | 1 | uint16 | | r | power (W) | 3B27 | = 15143 | | |
| 2018 | 8216 | 232 | uint16 | | r | reserved | | | | |
| 2100 | 8448 | 1 | uint16 | | rw | set current (bp)<br>- refers to max current<br>- lowest value of set current registers is used | 2710 | = 10000 | > = V73 | all |
| 2101 | 8449 | 1 | uint16 | | rw | set current (mA)<br>- values above max current are ignored<br>- lowest value of set current registers is used | 7D00 | = 32000 | > = V73 | all |
| 2102 | 8450 | 1 | uint16 | | rw | fallback current (mA) | 0000 | = 0 | > = V73 | all |
| 2103 | 8451 | 1 | uint16 | 0 – fallback inactive<br>> 0 – offline time after which fallback current is used | rw | fallback timeout (s) | 0000 | = 0 (OFF) | > = V73 | all |