

Poseidon2 and Damocles2 XML description

```
<?xml version="1.0" encoding="utf-8"?>
<Root>
```

Information Section

<pre><Agent> <Version>3.3.10</Version> <XmlVer>3.0</XmlVer> <DeviceName>kitchen</DeviceName> <Features> <RS485/> <Wire1/> <BinaryIn/> <BinaryOut/> <CommMonitor/> <DHCP/> <SNTP/> <SNMP/> <SMTP/> <Modbus/> <GSM/> <DataLogger/> <Report/> <Telnet/> <SOAP/> <WSDL/> <ValuesReport/> <AlarmReminder/> <Portal/> </Features> <Model>34</Model> <VendorID>10</VendorID> <MAC>00:0A:59:03:0C:91</MAC> <Uptime>564620</Uptime> <Boots>592</Boots> <Title>Poseidon2 model 4002</Title> <Contact>Information: www.HW- group.com</Contact> <Build>1849</Build> <BuildTime>Nov 2 2016, 13:14:37</BuildTime> <SerialNumber>6006490016</SerialNumber> <HttpType>http</HttpType></pre>	<ul style="list-style-type: none"> – Read only device parameters group – Device firmware version (Read only) – XML file version (Read only) – Device name – User configurable, Identical with <SysName> value, here read only (64 chars) (Here read only, change in <Network> part of XML) – Basic features of the device – system information only – Technical device type – available also over UDP Setup (5 chars) – internal information for HW group (Read only), – Vendor ID number – 0 .. 65565 16. bit number in ASCII (Read only), – Unique device MAC address (Read only), – Total running time since last restart (Read only), – Total Number of starts since the unit was manufactured (Read only), – Customizable device title – Top of the HTML page (Read only), Marketing device name (more in customisation) (max 32 chars) – User definable contact message, HTML code support (max 254 chars) (Read only here, updatable over TCP setup only, more in customisation) – Number of build (Read only), – Build time (Read only), – Serial number (Read only), – type of communication (http, https),
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</Agent>

Input, Output and Sensor Section

<BinaryInSet>

– Binary dry contact inputs (next only “Binary input”)

<Entry>

<ID>1</ID>

– Entry identification, ID (1..64), source for <CondInputID> for output control, ID in unique per device, 1..64 are reserved for binary inputs

<Name>Binary 1</Name>

– Defined name of the input (text string, 20 chars)

<Value>0</Value>

– Current value 0/1 (Read only)

<Alarm>0</Alarm>

– alarm settings for this Binary input – 1 byte 0 = active if on, 1 = active if off, 2 = inactive

<Delay>0</Delay>

– 0..255 Time delay in seconds to prolong Alarm state reaction. (used for Alarm Start even for Alarm End reaction)

<State>0</State>

– Current sensor state 0 = normal, 1 = Alarm activated but not send (Alarm sending Email or Trap not activated), 2 = alarm activated

<SNMPTrap>0</SNMPTrap>

– SNMP Trap alarm enable 0 = don't send, 1 = send if value out of SafeRange

<Email>0</Email>

– E-mail alarm enable 0 = don't send, 1 = send if value out of SafeRange

<SMS>0</SMS>

– SMS alarm enable 0 = don't send, 1 = send if value out of SafeRange

<ApDelta>0</ ApDelta>

– AutoPush is a function allowing sending of measured data in case of value increase/decrease larger than AutoPush delta parameter.

<Counter>0</Counter>

– State of counter (Read only)

<MQTT_Pub_Val>0</MQTT_Pub_Val>

– Enable od disable send Value over MQTT (R/W)

<MQTT_Pub_State>0</MQTT_Pub_State>

– Enable od disable send State over MQTT (R/W)

</Entry>

<Entry>

<ID>2</ID>

– Binary input 2

<Name>Binary 2</Name>

<Number>I2</Number>

<Value>0</Value>

<Alarm>2</Alarm>

<Delay>0</Delay>

<State>0</State>

<SNMPTrap>0</SNMPTrap>

<Email>0</Email>

<SMS>0</SMS>

<ApDelta>0</ ApDelta>

</Entry>

<Entry>

<ID>3</ID>

– Binary input 3

<Name>Binary 3</Name>

<Number>I3</Number>

<Value>0</Value>

<Alarm>2</Alarm>

<Delay>0</Delay>

<State>0</State>

<SNMPTrap>0</SNMPTrap>

<Email>0</Email>

<SMS>0</SMS>	
<ApDelta>0</ ApDelta>	
</Entry>	
</BinaryInSet>	
<BinaryOutSet>	– Binary outputs settings & values
<Entry>	
<ID>151</ID>	– Entry identification, ID (151..214), source for <CondInputID>, ID in unique per device, 151..200 are reserved for outputs
<Name>RTS</Name>	– Output name (Read only)
<NameOn>On</NameOn>	– name of state On
<NameOff>Off</NameOff>	– name of state Off
<Type>1</Type>	– Type of the binary outputs 0: X/Y = “On” / “Off” (Relay output), 1: X/Y = “On (+10V)” / “Off (-10V)” (RTS output) 2: X/Y = “On (+10V)” / “Off (0V)” (DTR output) A88
<Mode>0</Mode>	– Output control mode (Manual / Local + condition) 0 = Manual output control (value defined by Value tag) 1 = Local output control (On if any alarm) 2 = Local output control (On if value equal to Trigger) 3 = Local output control (On if value higher than Trigger) 4 = Local output control (On if value lower than Trigger) 5 = Local output control (On if Alarm on)
<Value>0</Value>	– 0/1 Current output value R/W for the „Manual output control” R for the „Local output control” (On if any alarm)
<CondInputID>74</CondInputID>	– Condition related input ID – Poseidon 3268 future
<Trigger>-18.5</Trigger >	– Trigger value for condition – Poseidon 3268 future
<PulseTime>0</PulseTime>	– Délka pulzu v režimu Local Dondition. (R/W – 0 disable)
<VirtType>0</VirtType>	– type of Virtual output (R/W – future)
<VirtServer/>	– IP address of remote outputs (device) (R/W)
<VirtPort>0</VirtPort>	– TCP port of remote outputs (device) (R/W)
<VirtId>0</VirtId>	– ID remote output (R/W)
<VirtUsername/>	– Username of remote outputs (device) (R/W)
<VirtPassword/>	– Password of remote outputs (device) (R/W)
<VirtSenPortIndex>0</VirtSenPortIndex>	– ID of Virtual Outputs (Read Only)
<VirtSenId>0000000000000000</VirtSenId>	– ID of Virtual sensors (future)
<MQTT_Pub_Val>0</MQTT_Pub_Val>	– Enable od disable send Value over MQTT (R/W)
<MQTT_Pub_State>0</MQTT_Pub_State>	– Enable od disable send State over MQTT (R/W)
<MQTT_Pub_Cnt>0</MQTT_Pub_Cnt>	– Enable od disable send Counter over MQTT (R/W)
</Entry>	
<Entry>	
<ID>152</ID>	– Entry identification
<Name>DTR</Name>	
<Type>2</Type>	
<Value>0</Value>	
<Mode>3</Mode>	
<CondInputID>75</CondInputID>	

```
<Trigger>22.5</Trigger >
</Entry>
</BinaryOutSet>
```

<SenSet>

– All detected sensors

```
<Entry>
```

```
<ID>57856</ID>
```

– Entry identification, ID address of the sensor (Read only), source for <CondInputID>, ID in unique per device, 48..122 and 256..65535 are reserved for sensors

```
<SensId>57856</SensId>
```

– Full 1-Wire ID address of the sensor (Read only), 1-Wire Sensor ID is unique

```
<Name>Sensor 240</Name>
```

– Defined name of the sensor (text string, 15 chars)

```
<Units>C</Units>
```

– Unit of send value "C" for temperature, "%RH" for humidity, "V" for voltage "mA" for current , "s" for Switch (0/1) "p" for counter pulses (1/10 digit can be used) atd...

```
<Value>23.0</Value>
```

– Current value, one defimal value, decimal separator is "." (Read only)

```
<Calib>-0.15</Calib>
```

– Sensors calibration shift value (Value = Raw sensor value + Calib)

```
<Min>-1.5</Min>
```

– SafeRange minimal limit

```
<Max>24.6</Max>
```

– SafeRange maximal limit

```
<Hyst>0.0</Hyst>
```

– Hysteresis (non sensitivity range) value

```
<SNMPTrap>1</SNMPTrap>
```

– SNMP trap alarm enable 0 = don't send, 1 = send if value out of SafeRange

```
<Email>0</Email>
```

– E-mail alarm enable 0 = don't send, 1 = send if value out of SafeRange

```
<SMS>0</SMS>
```

– SMS alarm enable 0 = don't send, 1 = send if value out of SafeRange

```
<Delay>0</ Delay>
```

– 0..255 Time delay in seconds to prolong Alarm state reaction. (used for Alarm Start even for Alarm End reaction), Similar to Hysteresis but in time

```
<ApDelta>0</ ApDelta>
```

– AutoPush is a function allowing sending of measured data in case of value increase/decrease larger than AutoPush delta parameter.

```
<State>0</State>
```

– Current sensor state
 0 = normal,
 1 = Alarm activated (value out of SafeRange) but not send (Alarm sending by Email or Trap not activated),
 2 = value out of SafeRange - Alarm sent,
 4 = sensor invalid (not connected)

```
</Entry>
```

```
<Entry>
```

```
<ID>74</ID>
```

```
<Code>74</Code>
```

```
<Name>Sensor 23</Name>
```

```
<Units>C</Units>
```

```
<Value>23.8</Value>
```

```
<Calib>0.19</Calib>
```

```
<Min>10.0</Min>
```

```
<Max>60.0</Max>
```

```
<Hyst>0.0</Hyst>
```

```
<SNMPTrap>0</SNMPTrap>
```

```
<EmailSMS>0</EmailSMS>
```

```
<ApDelta>0</ ApDelta>
```

```
<State>0</State>
</Entry>
</SenSet>
```

RS-232/GSM Settings

```
<SerialPort>
  <E>1</E>                                – Enable Serial Port 0= Disabled, 1=GSM modem, 2=RFID reader
</SerialPort>

<SMS>
  <Function>0</Function>                   – Function 0-Local Modem, 1=Remote GSM GW
  <Ring>0</Ring>                           – Enable Ring alert (0/1)
  <Dest>1</Dest>                             – Remote SOAP GW destination number
  <Module>Not enabled</Module>             – FOUND / NOT FOUND of GSM serial terminal
  <CenterNmr/>                               – SMS center Number
  <Recp1/>                                    – SMS1 destination Number
  <Recp2/>                                    – SMS2 destination Number
  <Recp3/>                                    – SMS2 destination Number
  <Recp4/>                                    – SMS2 destination Number
  <Recp5/>                                    – SMS2 destination Number
  <State>0</State>                           – Test processing report
  <Message/>                                 – SMS Test report message from last SMS test
</SMS>
```

Destination Section

```
<SnmpTraps>                                – SNMP Traps settings
  <Entry>
    <Idx>1</Idx>                             – Entry identification
    <Community>public</Community>           – SNMP Community settings (32 chars)
    <IPAddr>192.168.1.39</IPAddr>           – SNMP trap destination IP address
    <Port>162</Port>                         – SNMP trap destination port
    <E>1</E>                                 – Enable / Disable destination (0/1)
  </Entry>
  <Entry>
    <Idx>2</Idx>
    <Community></Community>
    <IPAddr></IPAddr>
    <Port></Port>
    <E>0</E>
  </Entry>
  <Entry>
    <Idx>3</Idx>
    <Community></Community>
    <IPAddr></IPAddr>
    <Port></Port>
    <E>0</E>
```

```

</Entry>
<Entry>
  <Idx>4</Idx>
  <Community></Community>
  <IPAddr></IPAddr>
  <Port></Port>
  <E>0</E>
</Entry>
<Entry>
  <Idx>5</Idx>
  <Community></Community>
  <IPAddr></IPAddr>
  <Port></Port>
  <E>0</E>
</Entry>
</SnmpTraps>
  
```

Configuration and Services Section

<pre> <Menu> <Page>0</Page> </Menu> <Global> <Units>Celsius</Units> <SysUnits>Celsius</SysUnits> <HWSec>Disabled</HWSec> </Global> <CountersEnabled> <E>1</E> </CountersEnabled> <CommMonitor> <Modbus>0</Modbus> <XML_HTTP>0</XML_HTTP> <SNMP>0</SNMP> <Timeout>0</Timeout> </CommMonitor> <Network> <Name>Poseidon in kitchen</Name> <DHCP>0</DHCP> <IPAddr>192.168.1.80</IPAddr> <Submask>255.255.255.0</Submask> </pre>	<ul style="list-style-type: none"> – Global settings – Temperature units displayed in a Flash setup interface “Celsius”, “Fahrenheit”, “Kelvin” – Temperature units in a system (SNMP, Modbus/TCP etc) “Celsius”, “Fahrenheit”, “Kelvin” – HW DIP security value – “Enabled” / “Disabled” (Read only), – Enable od Disable Counters of inputs (R/W) – Communication Monitor – Modbus monitoring (0/1), – XML monitoring (0/1), – SNMP monitoring (0/1), – Period of Communication Monitor (in seconds), – Network settings – Device name (64 chars) Identical with item <Agent><DeviceName>, here R/W – 0/1 – Enable DHCP, when enabled show assigned IP values. – IP address of the device (Read only when DHCP enabled) – Value of the IP subnet mask (Read only when DHCP enabled)
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<pre><Gateway>192.168.1.100</Gateway></pre>	<ul style="list-style-type: none"> – IP address of the Gatteway (Read only when DHCP enabled)
<pre><DNSPrimary>147.230.16.1</DNSPrimary></pre>	<ul style="list-style-type: none"> – Primary DNS server (you have to set DNS server as IP address) (Read only when DHCP enabled)
<pre><DNSSecondary>213.180.44.4</DNSSecondary></pre>	<ul style="list-style-type: none"> – Secondary DNS server (Read only when DHCP enabled)
<pre><HTTPport>80</HTTPport></pre>	<ul style="list-style-type: none"> – Internal device WEB server port
<pre><TelnetPort>99</TelnetPort></pre>	<ul style="list-style-type: none"> – Telnet setup (TCP setup) port. "0" = TCP setup disabled
<pre><SNMPPort>161</SNMPPort></pre>	<ul style="list-style-type: none"> – SNMP pooling port settings
<pre></Network></pre>	
<pre><SOAP></pre>	<ul style="list-style-type: none"> – SOAP settings
<pre><Entry></pre>	
<pre><Idx>1</Idx></pre>	<ul style="list-style-type: none"> – Destination ID
<pre><E>1</E></pre>	<ul style="list-style-type: none"> – Destination Enable 0/1
<pre><Server>192.168.1.36</Server></pre>	<ul style="list-style-type: none"> – Destination IP
<pre><Port>80</Port></pre>	<ul style="list-style-type: none"> – Destination TCP Port
<pre><Route>service.xml</Route></pre>	<ul style="list-style-type: none"> – Name of XML file
<pre></Entry></pre>	
<pre></SOAP></pre>	
<pre><Report></pre>	<ul style="list-style-type: none"> – Alarm Reminder & Periodic status
<pre><Entry></pre>	
<pre><Idx>1</Idx></pre>	<ul style="list-style-type: none"> – ID1 – Periodical Status
<pre><E>0</E></pre>	<ul style="list-style-type: none"> – Enable Function 0/1
<pre><Period>60</Period></pre>	<ul style="list-style-type: none"> – Period (in minutes)
<pre></Entry></pre>	
<pre><Entry></pre>	
<pre><Idx>2</Idx></pre>	<ul style="list-style-type: none"> – ID2 Alarm Reminder
<pre><E>0</E></pre>	<ul style="list-style-type: none"> – Enable Function 0/1
<pre><Period>5</Period></pre>	<ul style="list-style-type: none"> – Period (in minutes)
<pre></Entry></pre>	
<pre></Report></pre>	
<pre><Portal></pre>	
<pre><PushPeriod>30</PushPeriod></pre>	<ul style="list-style-type: none"> – period of sending the data to a remote server. This value is being set by a portal.
<pre><E>1</E></pre>	<ul style="list-style-type: none"> – enables or disables the portal function
<pre><Name>vitolmr</Name></pre>	<ul style="list-style-type: none"> – username assigns the device to a user account. Provided by a portal administrator
<pre><Pswd>qehgls</Pswd></pre>	<ul style="list-style-type: none"> – Provided by a portal administrator together with a username
<pre><ServerAddress>www.sensdesk.com/portal.php</ServerAddress></pre>	<ul style="list-style-type: none"> – full URL of the remote server
<pre><PortalPort>80</PortalPort></pre>	<ul style="list-style-type: none"> – Portal listening port
<pre><PortalMessage>SensDesk.com: Check sensor online.</PortalMessage></pre>	<ul style="list-style-type: none"> – Portal communication status

<pre><Portal_PushTimer>7</Portal_PushTimer> <Portal_LogTimer>7</Portal_LogTimer> <Portal_ApBlockTimer>0</Portal_ApBlockTime r> </Portal></pre>	<ul style="list-style-type: none"> – Counts out the time to the next standard data sending – Shows the time left to next data saving to a internal memory – Shows the time needed before sending another AutoPush after the previous AutoPush process. this value is being set by a portal.
<pre><MIBIISysGroup> <SysContact>support@HWgroup.cz</SysContact > <SysName>Poseidon in kitchen </SysName> <SysLocation></SysLocation> </MIBIISysGroup></pre>	<ul style="list-style-type: none"> – MIB II settings – MIB's administrator e-mail (64 chars) – MIB's database name (64 chars) Identical with item <Agent><DeviceName>, here R/W – MIB's system database placement (64 chars)
<pre><Email> <Server></Server> <Port>25</Port> <From>user@domain.com</From> <Subject>Subject_0</Subject> <Auth>0</Auth> <Secure>0</Secure> <Name>User login name</Name> <Pswd></Pswd> <Message></Message> </Email></pre>	<ul style="list-style-type: none"> – E-mail settings – DNS address or IP address of remote SMTP server (40 chars) – Port for communication with remote SMTP server – Email address of sender (40 chars) – Subject of Email message (50 chars) – SMTP server Autentisation (0 = not required, 1 = required, 3= TLS) – SMTP Secure communication (0 = not required, 1 = TLS) – SMTP autentification Login name (40 chars) – SMTP autentification Password (20 chars) – SMTP server report message from last TEST EMAIL (100 chars)
<pre><MailDest> <Entry> <Idx>1</Idx> <To>recip@domain.com</To> <Cc>recip@domain.com</Cc> <Cc1>recip@domain.com</Cc1> <Cc2>recip@domain.com</Cc2> <Cc3>recip@domain.com</Cc3> </Entry> <Entry> <Idx>2</Idx> <To>recip@domain.com</To> </Entry> </MailDest></pre>	<ul style="list-style-type: none"> – Email destination definition – Alert email – Recipient of Email (40 chars) – Recipient of Email (40 chars) – Recipient of Email (40 chars) – Recipient of Email (40 chars) – Recipient of Email (40 chars) – LOG periodic report email – Recipient of Email (40 chars)
<pre><Time> <SNTPServer>ntp1.sth.netnod.se</SNTPServer > <TimeShift>1</TimeShift></pre>	<ul style="list-style-type: none"> – Time settings – DNS address or IP address of SNTP server (time server) (40 chars) – time shift (in hours)


```

<Date>31.12.1970</Date>           – date
<Time>03:09:33</Time>           – time
</Time>

<DataLogger>
  <StorePeriod>360</StorePeriod>  – Log period in sec. Minimal is 1 cycle through sensor and is depend on
  sensor count. 0 = Logger disabled, max. value is 65535
  <LogCapacity>100.2.23</LogCapacity> – estimated log capacity (How long device can storage data.) format
  hours.mins.secs it is only aproximate value
  <Report>                          – Periodic email with current value and logged data
  <E>0</E>                          – Enable periodic reporting
  <Period>5</Period>                – Reporting period in min. Minimal is 5 minutes
  <Erase>0</ Erase>                 – 0/1, 1=Erase reported (delivered to SMTP server) values from Logfile
  <LogName>spilog</LogName>        – Name of logfile
</Report>
</DataLogger>
  
```

Security Section

```

<HTTPIPFilter>                    – HTTP access filter values
  <IPAddr>0.0.0.0</IPAddr>         – IF ((IPAddr AND Mask) XOR (TestAdress AND Mask)) = 0 than access
  <Mask>0.0.0.0</Mask>            enabled
</HTTPIPFilter>

<SNMPIPFilter>                    – SNMP acces filter
  <IPAddr>0.0.0.0</IPAddr>         – IF ((IPAddr AND Mask) XOR (TestAdress AND Mask)) = 0 than access
  <Mask>0.0.0.0</Mask>            enabled
</SNMPIPFilter>

<SnmpAccess>                      – SNMP access settigs
  <Entry>
    <Idx>1</Idx>                  – Entry identification
    <Community>public</Community> – Community name (32 chars)
    <R>1</R>                      – Read access (0/1)
    <W>0</W>                      – Write access (0/1)
    <E>1</E>                      – Enable / Disable comunity (0/1)
  </Entry>
  <Entry>
    <Idx>2</Idx>
    <Community>private</Community>
    <R>1</R>
    <W>1</W>
    <E>1</E>
  </Entry>
</SnmpAccess>
  
```

```

<User>                                     – secure of HTTP server by password
  <Entry>                                   – Read only access to setup.xml and Flash setup interface
    <Idx>1</Idx>
    <Name></Name>                             – Name (32 chars)
    <Pswd></Pswd>                             – Password (filled by “**”)(32 chars)
  </Entry>
  <Entry>                                   – Read &Write Outputs, Read only device configuration
    <Idx>2</Idx>
    <Name></Name>                             – Name
    <Pswd></Pswd>                             – Password (you can see current Password in Flash Setup)
  </Entry>
  <Entry>                                   – Read&Write access to setup.xml and Flash setup interface
    <Idx>3</Idx>
    <Name></Name>                             – Name
    <Pswd></Pswd>                             – Password (you can see current Password in Flash Setup)
  </Entry>
</User>
</Root>

```

Auxilliary Section

Note: this sets up Flash application design layout and has to be at end of XML

```

<Info>1</Info>                             – Info tab in the Flash setup interface (0 = disabled, 1 = enabled)
</Root>

```

Command Format

Note: this format is valid only for POST operations

```

<?xml version="1.0" encoding="utf-8"?>
<Root>
  <Cmd>                                       – only 1 command from following group of tags will be processed (last one wins)
    <Type>SensAutodet</Type>                 – sensor autodetect (will restart device)
    <Type>Sens1WAutodet</Type>               – 1-Wire sensor autodetect only (will restart device)
    <Type>SMTP</Type>                         – send test e-mail
    <Type>TimeSync</Type>                     – Synchronisation Date and time from SNTP
    <Type>ManualPush</Type>                   – send values to Portal
    <Type>SMS</Type>                           – send test SMS to all destinations
    <Type>Restart</Type>                       – restart device (after a XML response is sent)
    <Type>SetDefault</Type>                   – Load to Default
  </Cmd>
</Root>

```