HMI2001-PI

WEB Configuration Gateway   Product mode :HMI2001-PI

   Functional description ： HMI2001-PI is WEB configuration Gateway. Mathching Configuration tool is X2View. WEB Configuration Gateway can realize the data collection, data real-time monitoring and directly into the configuration screen user configuration software , only need to use PC or any mobile device with browser can access configuration pages, remote monitoring equipment start-stop operations such as operation, bring good operational experience to the user At the same time can be forwarded to BACnet IP/MSTP server or Modbus TCP/RTU server, and open data interface by a third party system integration.

   Application fields ： WEB Configuration Gateway is converted into a standard BACnet protocol standard Modbus protocol, support SMS alarm、Wechat alarm, upload the cloud server by MQTT. It's Applications is mainly in building automation system, smart home, connect some unusual or industry control equipment, such as PLC elevator fire lighting control system instrument meter, etc So users can remote monitoring terminal equipment through the WEB configuration screen, or phone 、iPAD、PC .

   Runtime environment：

   OS：Windows XP/Win 7/Win8/Win10/Win Server 2003/Win Server2008/Win Vista etc.

   Browser：IE9（and above） 、Safari、Google Chrome、firefox、Opera etc.

   Register Type&Num

   Number of Registers is dynamic, each register can be builded up to 2048 points.

   Supported BACnet type and number are shown below.

   Supported Modbus type and number are shown below.

BACnet Register-type	BACnet Register-number	Modbus Register-type	Modbus Register-number
AI（Read only ）	2048（0~2047）	0X(Coil Status)（Read and Write）	2048（1~2048）
AO（Read and Write）	2048（0~2047）	1X(Input Status)（Read Only）	2048（1~2048）
AV（Read and Write）	2048（0~2047）	4X(Holding Register)（ Read and Write）	2048（1~4096）
BI（Read only ）	2048（0~2047）	3X(Input Register)（Read only）	2048（1~4096）
BO（Read and Write）	2048（0~2047）		
BV（Read and Write）	2048（0~2047）		
MI（Read only ）	2048（0~2047）		
MO（Read and Write）	2048（0~2047）		
MV（Read and Write）	2048（0~2047）		

Notes:
1.4X and 3X register address = translocation register address *2+1
  0X and 1X register address = translocation register address +1
2. The data type of 4X and 3X can only be Float

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Software Features：

-Green and free installation, support both Chinese and English;

-Support nearly 200 protocols to BACnet server Modbus server ,upload to cloud, upload to MQTT server;

-Support WeChat、SMS、E-mail and other communication methods to send alarm information;

-Support JS script to achieve logical control；

-Support HDMI；

-Supporting 200 storage points, and can be stored for about 1 year

-Support multiple forms of timing, event triggering, and custom function functions to facilitate the extension of applications;

-Support LAN, easy realization of remote viewing and control of touch screen via mobile iPAD PC;

-Add new private protocol support, within 2 weeks;

Hardware Parameter：

CPU：Raspberry PI 3 Modbel B+　4core ARM CoreX-A53 1.2GHz	Power Supply：AC/DC 12~24V
Memory：1GB(LPDDR2)　Flash：8G	Size(L×W×H)：202.6mm X 90.8mm X 32mm
System：LINUX	Weight：500g
Power：8W	Material：Aluminum Cover
Output：1x HDMI	Setup：Wall-mounted
Serial：1x RS485/RS232 (alternative)	Temperature：-20～70℃(working)　-40～85℃(storage and transportation)
Network:　1x 1000M ethernet　1x 802.11n Wireless LAN	Humidity:　20% ~ 90%, no condensation (work),　15% ~ 95%, no condensation (storage and transportation)

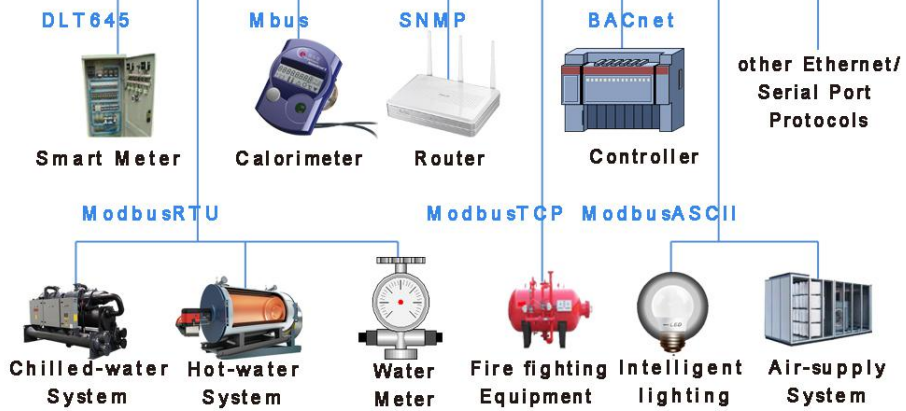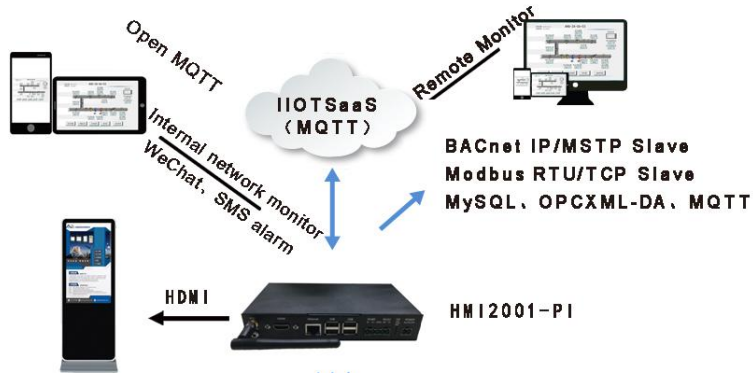## Application Principle Diagram-1
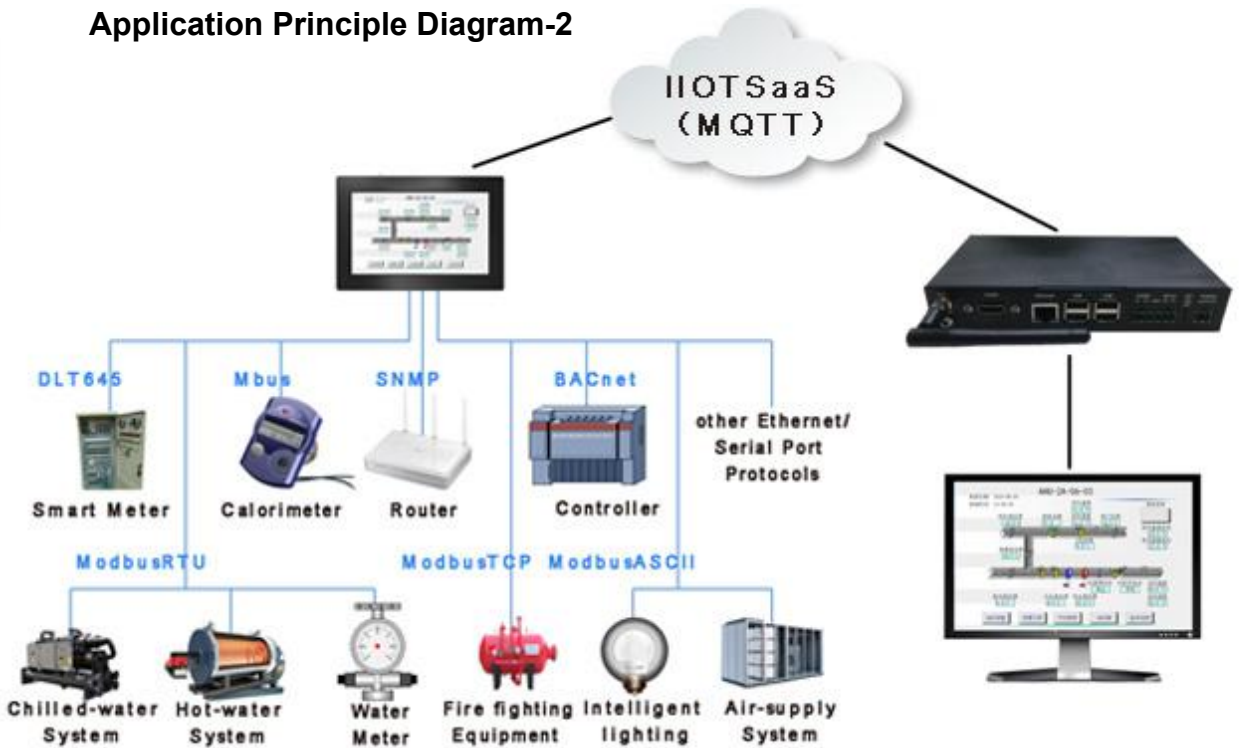

Open MQTT

Internal network monitor

WeChat, SMS alarm

Remote Monitor

IIOTSaaS (MQTT)

BACnet IP/MSTP Slave
Modbus RTU/TCP Slave
MySQL、OPCXML-DA、MQTT

HDMI

HMI2001-PI

DLT645 — Smart Meter — ModbusRTU

Mbus — Calorimeter

SNMP — Router

BACnet — Controller

other Ethernet/Serial Port Protocols

ModbusTCP ModbusASCII

Chilled-water System — Hot-water System — Water Meter — Fire fighting Equipment — Intelligent lighting — Air-supply System

Application Principle Diagram-2

IIOTSaaS (MQTT)

DLT645 — Smart Meter

Mbus — Calorimeter

SNMP — Router

BACnet — Controller

other Ethernet/Serial Port Protocols

ModbusRTU

ModbusTCP ModbusASCII

Chilled-water System — Hot-water System — Water Meter — Fire fighting Equipment — Intelligent lighting — Air-supply System

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Product Size

DIN Rail Mount