

WEB HMI I4-1002



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4inch WEB HMI Product mode:I4-1002 (With gateway function)

Functional Description: I4-1002 is the new generation HTML5-based 4.3-inch WEB SCADA touch screen developed independently by Shanghai Sunfull Automation for field data collection, which is to be transferred directly to the SCADA screen for real-time data monitoring. The SCADA software is not only convenient to operate, but also can be installed on embedded systems. Comparing to other SCADA software, the highlight is that it is completely WEB-based, so SCADA projects created by users can be downloaded and run on the touch screen. It can be accessed through a browser on smartphones, Pads or PCs. The data interface is open to third-party for system integration.

Application field: I4-1002 supports conversion to standard BACnet server and Modbus server.It is applied to BAS or industrial field to connect some uncommon control equipments,such as PLC,DDC,UPS,central air conditioner,elevator,fire control system,light control system,electricity meter, water meter,etc. This allows users to monitor on-site devices via WEB HMI I4-1002 or mobile phone ,iPAD,or PC.

Runtime environment:

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

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

Register Type&Num

Number of Registers is dynamic, each register can be built up to 512 points.

Supported BACnet Register Types and the Maximum Total Points are shown below.

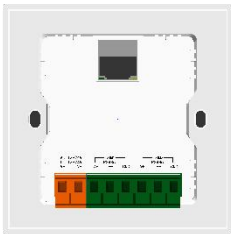
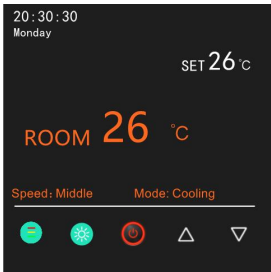
BACnet Register-type	BACnet Register-number
AI(Read only)	512(0~511)
AO(Read and Write)	512(0~511)
AV(Read and Write)	512(0~511)
BI(Read only)	512(0~511)
BO(Read and Write)	512(0~511)
BV(Read and Write)	512(0~511)
MI(Read only)	512(0~511)
MO(Read and Write)	512(0~511)
MV(Read and Write)	512(0~511)

Supported Modbus Register Types and the Maximum Total Points are shown below.

Modbus Register-type	Modbus Register-number
0X(Coil Status) (Read and Write)	512(1~512)
1X(Input Status) (Read Only)	512(1~512)
4X(Holding Register) (Read and Write)	512(1~1024)
3X(Input Register) (Read only)	512(1~1024)

- Notes:
- 1.4X and 3X register address = transfer register address *2+1
 - 0X and 1X register address = transfer 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 convert to BACnet server, Modbus server, OPC UA server, MQTT server;
- Open HTTP web services are integrated with third-party systems;
- Support MQTT services, project upload to the cloud, and other functions;
- Support JS to realize logical control;
- Support user group management, configuration screen monitoring can set permissions;
- Support various forms of timing and event triggering, and provides custom functions for the convenience of extending the application;
- Support LAN, easy realization of remote viewing and control of touch screen via phone、iPad、PC;
- Develop new private protocol within 2 weeks;

Hardware Parameter

Resolution: 480*480	Displayer: 4"TFT
Memory: 512M	Touch type: Capacitive-type
System: LINUX	CPU: 1 core 800MHZ
Flash: 8G	Power dissipation: ≤6W
Weight: 0.15kg	Power Supply: AC/DC 12-24V (DC recommended)
Port: 1x Ethernet, 2x RS485 serial port	Installation: 86 type bottom box
Material: ABS plastics	Temperature: -10~50°C(working) -20~70°C(storage and transportation)
Network: 1x High performance 100M/10M adaptive industrial network card, support AUTO MDI/MDIX	Humidity: 10%~90% no condensation (work), 15%~95% no condensation (storage and transportation)

Support Protocols List

Common Protocols

- 1 BACnet IP
- 2 BACnet MS/TP
- 3 BACnet Router
- 4 Modbus RTU
- 5 Modbus ASCII
- 6 Modbus TCP
- 7 Modbus UDP
- 8 Modbus RTU_TCP
- 9 Modbus RTU_UDP
- 10 Modbus ASCII_TCP
- 11 Modbus ASCII_UDP
- 12 Modbus RTU Server
- 13 OPC DA Client
- 14 OPC XML-DA
- 15 OPC UA Client
- 16 SNMP
- 17 Simulator
- 18 SunFullFromIOT
- 19 Network_Ping
- 20 DDC2001_8600
- 21 DDC2001_8642

European Heat meter

- 22 MBus_EnergyMeter_EN
- 23 MBus_EnergyMeter_EN_ABB_FCU
- 24 MBus_EnergyMeter_EN_ATLAS

Chinese Energy Meter

- 25 MBus_XinTuo_XTR
- 26 MBus_MaiTuo_MTW
- 27 MBus_AKE
- 28 MBus_YongGang
- 29 MBus_Zenner
- 30 MBus_EnergerMeter

- 31 MBus_EnergyMeter_HaiLin
- 32 Modbus_HaiLin_EnergyMeter
- 33 MBus_Zenner_WR3
- 34 MBus_BASIC
- 35 MBus_HeBeiTongLi

Water Meter

- 36 MBus_WaterMeter
- 37 MBus_lyglhsb
- 38 ModbusRTU_Zenner
- 39 MBus_WaterMeter_LXSGY_15E
- 40 JiangYin_LiXin_WaterMeter
- 41 MBus_WaterMeter_ZERO

Flow Meter

- 42 Modbus_Kent
- 43 Spirax SARCO M841
- 44 SC_FlowMeter
- 45 Modbus_CNM
- 46 MODBUS_LCD
- 47 Modbus_LDZ_6_GuangHua
- 48 Modbus_BiaoYi_WL
- 49 ModbusRTU_D08_8C
- 50 LCM_2000DF
- 51 LJS_ZLJS

Elevator

- 53 Hitachi Elevator BA Interface
- 54 Mitsubishi Elevator SMOS-PS2
- 55 Mitsubishi Elevator KLR-F485
- 56 Otis Elevator BA Interface
- 57 ModbusRTU_Otis_BAS
- 58 Otis_Elevator_BA_Jen2
- 59 ModbusTCP_Thyssenkrupp_Elevator
- 60 ModbusRTU_Thyssenkrupp_Elevator

61 Mitsubishi Elevator SMOS-PS2_TCP
62 Modbus_Otis_Elevator
63 Modbus_Kone Elevator
64 Modbus_Kone Elevator ASCII
65 Modbus_Kone_Elevator_ASCII_ANJAR
66 Mitsubishi Elevator MAXIEZ
67 Modbus_XIOLIFT_Elevator
68 XIOLIFT_Escalator
69 Elevator_3_Map
70 Giant_Kone_Elevator
71 FUJITEC_Elevator_Slave
72 Modbus_FUJITEC_Elevator

Electricity Meter

73 IEC104
74 DLT645-1997
75 DLT645-2007
76 DLT645-2007Client
77 Modbus_PM800
78 Modbus_IEM3000
79 CDT
80 DLT645-CHINT
81 Modbus_woyat
82 KD102_485
83 Q_CSG_2019
84 SDKDCH_DDSY1540
85 DLT645_2007Client_SDKDCH_DDSH1540

Air-Conditioning

87 Toshiba_Airconditioning
88 EMERSON_ACM03U1
89 Hisense_Airconditioning
90 Joton Tmaster
91 Modbus_DAIKIN_IRACC
92 DAIKIN_DRCH-R5
93 DAIKIN_HBS
94 VotonThermostat

95 SysGreen_Airconditioning
96 Hitachi_Chiller
97 SANYO_DG-52GHT
98 Gree_BaseStationAirconditioning
99 RC_Com
100 ZHONGHONG_VRVGateway
101 ZHONGHONG_VRVGateway_TCP
102 Modbus_YORK_YCOH120HSEM
103 Modbus_York
104 Panasonic_Inverter
105 SamSung_DVM_Protocol
106 SHWARM_AIR
107 Elsonic_AC331
108 Bandary_NC301
109 York_ISN
110 YAIR_Airconditioning
111 RKC_CH402
112 BIGBANIAN_AIRC800
113 MITSUBISHI_HEAVY_Haier_QMS
114 Mitsubishi_VRV_ABWG_CCM10
115 Mitsubishi_VRV_86_485
116 SINOCLEAN485
117 MY2000_485
118 HIROLink
119 JS_HongDi_Airconditioning
120 LvJian_8868_485
121 Midea_MDV
122 WeiShiDun_485
123 ModbusRTU_Tent_Air
124 WYJ_5UPLUS
125 Modbus_Hitachi_Air_Cool_Modules

PLC

126 Mitsubishi FX1S
127 Mitsubishi FX2N
128 Mitsubishi FX3U
129 Mitsubishi FX_485ADP_485BD

130 Mitsubishi Melsec_Q_Serial
131 Mitsubishi Melsec_Q_TCP
132 Mitsubishi FX3U_Ethernet_TCP
133 MEGMEET_MC200
134 Haiwell E/S PLC
135 Haiwell H/N PLC
136 Panasonic FP
137 XINJE PLC
138 DELTA_DVP
139 FATEK_FB
140 OMRON_FINS_UDP
141 OMRON_FINS_Serial
142 Saia_SBus_UDP
143 Toshiba_PROVISOR_TC200
144 Saia_SBus_UDP
145 Toshiba_PROVISOR_TC200
146 LS_GM_GLOFA_Enet
147 Siemens_IPC_PLC
148 AB_EthernetIP
149 AB_DF1_FullDuplex

Siemens PLC

151 Siemens S7-200 PPI
152 Siemens S7-200 Network
153 Siemens S7-300 Network
154 Siemens S7-1200 Network
155 XT55 GPS SERVER
156 Siemens_MicroMaster430

Light Control

157 KNXnetIP_MultiCast
158 DyNet
159 Modbus_LDS
160 MicroPara_DR0816
161 MicroPara_DR1220
162 MicroPara_DH0416
163 LitePuter_DP_105E

164 LitePuter_PLNET
165 MicroPara
166 ULaiDe
167 LDS
168 E_Linkers_ECWG485
169 Lutron_Telnet
170 DALITEK_DigitalHotelInterface
171 Gfilcs_GF_LCS6008_NCC
172 CRESTRON_DIN_AP3_TCP
173 EastSun_UDP
174 EastSun_TCP
175 Clipsal_CBus
176 DynaliteOnline_LSP8100
177 Honeywell_HBLS_GW
178 LEVITON_TCPServer
179 CAN_JCDQ
180 CAN_ANSLE
181 CAN_WENBAO
182 CAN_JINGO
183 CAN_DOBABO
184 ZhejiangShuoBen
185 LEVITON_HTTPS
186 LEVITON_HTTP
187 Acrel_Apolo_TCPServer
188 Cuomoe_485

UPS

190 YDT1363.3
191 SANTAK UPS
192 DELTA UPS ES3000
193 LEGRAND UPS
194 EMERSON_HIPULSE
195 EMERSON_Liebert_UPS
196 ModbusRTU_GE_UPS
197 EKSUPS
198 EMERSON_NXL
199 EMERSON_ITA40k_UPS

200 EMERSON_UH31

201 EMERSON_UL33

202 Voltronic_Power_UPS

203 Envicool_CyberMate

204 VERTIV_PEX_CW_YDN32

205 Hisense_YDT

206 MenTech_MEC048_H53A0

207 EMERSON_ITA_NXC_NX_UPS

208 VERTIV_SunStreaker

209 Schneider_APC_SPM_UPS

210 Joton_Tmaster_TXXY_GJ

Fire Alarm

211 JB-3208 CRT

212 Siemens Cerberus FS18

213 BOSCH_DS7400XI_TCP

214 BOSCH_DS7400XI

215 BOSCH_MTSW_UDPServer

216 VESDA_Open_HLI_Protocol

217 YANRONG_YR_LC_TXAH

218 NOTIFIRE_NFS2_3030_CRT

219 TYCO_Simplex_4100ZHU

220 LEADER_LD128E_CRT

221 EST3_CRT

222 JADE_BIRD_JBF_293K_CRT

223 saj110_AlarmSystem

224 Forsafe_CRT

225 NOHMI_GTW_CRT

226 VOANDOS_AL_9480

227 SZ_SANJIANG_CRT

228 TanDaTech_CRT

Lumi_Gateway

229 Lumi_Gateway

230 Lumi_Aqara

Injection Molding Machine

231 SUMITOMO_SE_D

232 LK_POTENZA_200

233 LK_POTENZA_PT320

Environmental Procotol, Humidifier, Dehumidifier

234 SC_HuangMei

235 FRT_AQM1000

236 JiangSu_LYHB_COD

237 TSI_PM25

238 WXT520

239 VAISALA_WXT530_Series

240 LD2_PHRH_RS485

241 TSI_DustTrakII_TCP

242 BHHB_212Serial

243 HJ_212_TCP

244 SC_212_TCPServer

245 Modbus_TGCS

246 SJINT

247 Condair_PH

248 ChengDu_Weather

249 NowAPI_Weather

250 SIMPUSUN

251 ST_Sensus

252 Aeroqual_AQM65

253 TECHNIPLAST_AIR_HANDLING_UNITS

Weight

254 Buhler_MEAF

255 METTLER_TOLEDO_SICS

256 YAOHUA_XK3190_A9

257 XPBalance_ES_20KTS

258 GriffithElder_ContainerTilt

259 SH_ShenHao_465D

260 KELI_KD12_TF7

261 WXRL_SLC

262 METTLER_TOLEDO_C1200_TCP

MQTT Collection

263 MQTT_Lora_TL_ACQ1
264 MQTT_Eastsoft
265 MQTT_NOVUS_LogBoxWiFi
266 MQTT_URSALINK
267 PSpacePlusMQTTPlugin
268 MQTT_JXZhiLian_AirCompressor
269 MQTT_trowsoft
270 MQTT_Wanland_URSALINK

Database Collection

271 MySQL
272 MicroSoft_SQL_Server

HTTP Collection

273 Datalogger_HTTP
274 ULBMSCAN_HTTP
275 HTTPS_EZVIZ
276 HTTP_XieZhuApi
277 PRAJNA_HTTP
278 XiAn_XinRiAuto_MT_CN
279 XiAn_XinRiAuto_Water_HTTP
280 KONZESYS_RMCS_HTTP
281 YeeFung_Parking_System
282 JJ_GyuKaku
283 MICROSENSOR
284 LeiyokejiAPI_HTTP
285 HTTP_ChengDu_Weather
286 HTTP_LanZhouLouShui
287 HTTP_EICG
288 HTTP_B_iSolar
289 HTTP_BaoJi
291 HTTP_ZKTeco_K2_100
292 HTTP_REFORMER_OCS
293 HTTP_YunJian
294 HTTP_ZNBPT

295 HTTP_DST_TECH
296 HTTP_Hitachi
297 HTTP_LC_F7200_CGI
298 HTTP_HAILIAN

Other Protocols

299 FFU
300 Panasonic MINAS A5
301 SINOLY JINE_JA05
302 SAUTER_CASE_VAV
303 EMEC_LDPH
304 YuDian_AI_Single_loop
305 Modbus_GreenDaoFenMuJi
306 SOLIN
307 ACTI_SignalSelector
308 N2_VMA
309 Modbus_TG01W
310 Ebara_Densan_S-BCS
311 Modbus_HOLTOP_HDK_09S_BA
312 Projector
313 HeFei_Ahhfat
314 BoosterBoiler_NEURON_NXQ
315 Epson_PJLink
316 AAF_EMBUS_EC
317 Arspas_FFU
318 SW_5
319 BMS_RICHPower
320 BMS_PACE
321 Newell_Technologies_iControl_System
322 Newell_Technologies_HarborGreen
323 Newell_Technologies_PAV_Security
324 Modbus_Maxonic
325 TOA_VX2000_V3
326 LTM9662_485NET
327 Lance_LTM8000
328 CHANG_AI_CI_PC56

Support Protocols List

329 XZ_DS01_TH2C	366 IKA_MAXI_MR
330 FCU_485	367 JOYO_BJLM_80H
331 IBT_ModbusRTUClient	368 Lontri_485
332 Systec_SerialProtocol	369 CAPINTEC_DOSE_CALIBRATOR
333 Cibsolar_CA	370 BOXUN_HTBUS
334 Kaseman	371 Afore_Inverter
335 Hypersee_Radar	372 Guangzhou_LiKong_Auto_ETH_P
336 Hypersee_Alarm_Radar	373 LABTEK_Water_System
337 JinXiang_PowerModule	374 SuZhouFeiShi_Sensor_TCP
338 AOK_Motor_Control	375 EBMPAPST_K4
339 Hotel_CheckIn_System	376 SFGK_AIR_SYSTEM
340 ESPEC_A_Series	377 SZWEICO_2ZB_2L20A
341 SHCanYu_485	378 Eldex_Metering_Pumps
342 CREATECH_CA_AD7	379 RN_MICRO
343 SOMFY_SDN	380 INFICON_SQC_310
344 DOOYA_DM35E_485	381 JULABO_NYDEO_DD
345 Honeywell_Barcode_Scanner	382 Series_II_Pump
346 FTS_485	383 XIZI_Elec_NGS500
347 ELGA_CENTRA	384 LO5_OPTO5
348 Curtain_Motor_485	385 CAN_MEGMEET_MR48300HG
349 Ewig_HT3000D	386 Modbus_KY_B
350 LS_Class_Pump	387 RAD_ElectricityMeter
351 HPGP_PDS_E	388 GDLION_LFT201_D
352 Modbus_ZS	389 ON_LINE_DDM_2050XY
353 OPW_SS1PosProtocols	
354 Atombot_KEBA_TCP	
355 LY_G800_485	
356 ModbusRTU_Honeywell_MVC_80M	
357 ALTEC_AL808_V70	
358 Bluetooth_Mesh	
359 VIDEOJET_TCP	
360 VIDEOJET_TCP2	
361 Atombot_KEBA_TCP	
362 CAN_KOHODO	
363 LY_G800_485	
364 ISPERF_Face_Reognition	
365 Sunfull_Camera_Gateway	

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