

QuickServer Start-up Guide

PS-QS-1010/1011, PS-QS-1510/1511







APPLICABILITY & EFFECTIVITY



Effective for all systems manufactured after August 2012

Kernel Version: 6.04 Document Revision: 11

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1 EQUIPMENT SET-UP1

QuickServer is a high performance, cost effective Building and Industrial Automation multi-protocol gateway providing protocol translation between serial, Ethernet, and LonWorks devices and networks.

2 SUPPLIED EQUIPMENT

QuickServer Gateway.

Preloaded with the two selected drivers (on the PS-QS-1011/1500 one of those drivers is LonWorks). A sample configuration file is also pre-loaded onto the QuickServer.

All instruction manuals, driver manuals, configuration manuals and support utilities are available on the USB drive provided in the optional accessory kit, or on-line at www.fieldserver.com/QS Support/

Accessory kit (Optional) (Part # FS-8915-36-QS) including:

7-ft CAT5 cable with RJ45 connectors at both ends

Power Supply -110/220V (p/n 69196)

DIN Rail mounting bracket

Screwdriver for connecting to terminals

USB Flash drive loaded with:

- QuickServer Start-up Guide
- FieldServer Configuration Manual
- FieldServer Utilities Manual
- All FieldServer Driver Manuals
- Support Utilities
- o Any additional folders related to special files configured for a specific QuickServer
- o Additional components as required See Driver Manual Supplement for details

2.1 BTL Mark – BACnet Testing Laboratory



The BTL Mark on the ProtoNode RER is a symbol that indicates to a consumer that a product has passed a series of rigorous tests conducted by an independent laboratory which verifies that the product correctly implements the BACnet features claimed in the listing. The mark is a symbol of a high-quality BACnet product. For more information about the BACnet Testing Laboratory go to: http://www.bacnetinternational.net/btl/

2.2 LonMark Certification



LonMark International is the recognized authority for certification, education, and promotion of interoperability standards for the benefit of manufacturers, integrators and end users. LonMark International has developed extensive product certification standards and tests to provide the integrator and user with confidence that products from multiple manufacturers utilizing LonMark devices will work together. FieldServer Technologies, manufacturer of the QuickServer has more LonMark Certified gateways thar any other gateway manufacturer.



¹ LonWorks is a registered trademark of Echelon Corporation Metasys is a registered trademark of Johnson Controls Inc. BACnet is a registered trademark of ASHRAE

3 MOUNTING

The following mounting options are available:

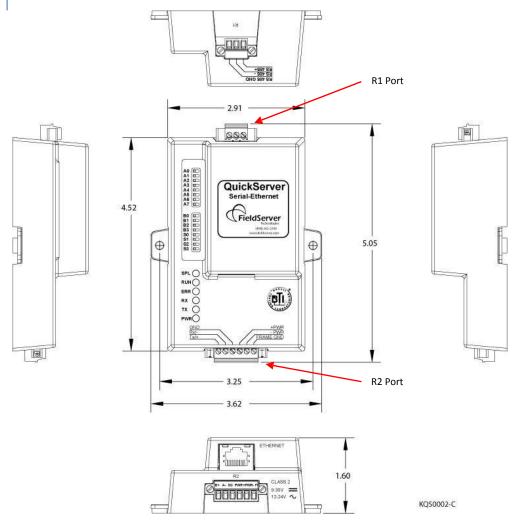
Product comes with tabs for wall or surface mount. These can be snapped off if not required.

DIN Rail Mounting Bracket - included in the Accessory Kit or ordered separately)

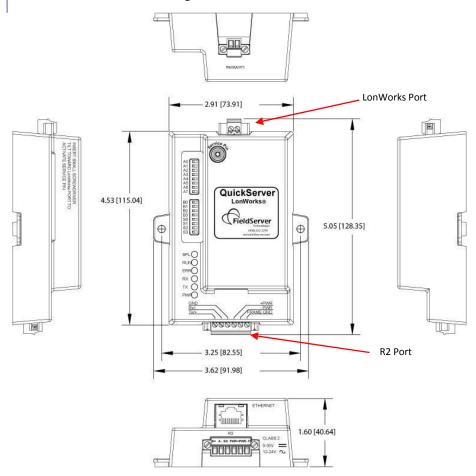


3.1 Dimensions

3.1.1 Dimension Drawing PS-QS-1010/1510-XXXX



3.1.2 Dimension Drawing PS-QS-1011/1511-XXXX



3.3 Specifications²













	PS-QS-1010/1510-X	XXX	PS-QS-1011/1511-XXXX		
	One 6-nin Phoeniy o	onnector one RS-	One 6-nin Phoeniy connector, one RS-485 (or RS-232		
	•				
	, ,	, power +/- Iraille	, , , , , , , , , , , , , , , , , , , ,		
Available Ports		hooniy connector	·		
One 3-pin RS-485 Phoenix connector, one RS-485 +/- ground port One Ethernet-10/100 port Input Voltage: 9-30VDC or 12-24VAC Input Power Frequency 50/60 Hz. Requirements Power Rating: 2.5 Watts Current draw @ 12V, 150 mA TUV approved to UL 916 Standard ROHS Compliant DNP compliant OPC self-tested to conformance Approvals CE Mark BTL Mark DNA CE Mark BTL Mark CE Surge Suppression EN61000-4-2 ESD EN61000-4-3 EMC EN61000-4-4 EFT Physical Dimensions(excluding the external power supply) Input Voltage: 9-30VDC or 12-24VAC Input Power Frequency 50/60 Hz. Input Voltage: 9-30VDC or 12-24VAC Input Voltage: 9-30VDC or 12-24VAC Input Voltage: 9-30VDC or 12-24VAC Input Power Frequency 50/60 Hz. Power Rating: 2.5 Watts Current draw @ 12V, 279 mA TUV approved to UL 916 Standard RoHS Compliant FCC Part 15 Compliant OPC self-tested to conformance UnMark Certification SPID: 80:00:95:46:00:84:04:01 Profiles: 0000 - Node object (1) 0001 - Open Loop Sensor Object (5) 0003 - Open Loop Actuator Object (5)					
			One Ethernet-10/100 port		
		-	Input Voltage: 9-30VDC or 12-24VAC		
Power					
Requirements	Power Rating: 2.5 W	atts	Power Rating: 2.5 Watts		
	_				
	TUV approved to UL 916 Standard		TUV approved to UL 916 Standard		
	RoHS Compliant		RoHS Compliant		
	FCC Part 15 Complia	nt	FCC Part 15 Compliant		
	DNP compliant		DNP compliant		
	OPC self-tested to co	onformance	OPC self-tested to conformance		
Approvals	CE Mark		LonMark Certification		
	BTL Mark		SPID: 80:00:95:46:00:84:04:01		
			Profiles:		
			0000 - Node object (1)		
			0001 - Open Loop Sensor Object (5)		
			0003 - Open Loop Actuator Object (5)		
Surge Suppression	n				
EN61000-4-2 ESD	EN61000-4-3 EMC EN	61000-4-4 EFT			
Physical Dimensions(excluding the exte		ernal power supply)			
(WxDxH):		5.05 x 2.91 x 1.6 in	. (12.82 x 7.39 x 4.06 cm) excluding mounting tabs		
Weight:		0.4 lbs (0.2 Kg)			
Environment:					
Operating Temper	rature:	-40°C to 75°C (-40°	F to167°F)		
Humidity:		5 - 90% RH (non-co	ondensing)		

"This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference

This device must accept any interference received, including interference that may cause undesired operation.

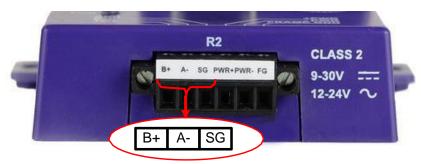
² Specifications subject to change without notice

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his expense. Modifications not expressly approved by FieldServer could void the user's authority to operate the equipment under FCC rules"

4 INSTALLING THE QUICKSERVER

4.1 RS-485

4.1.1 RS-485 Connection R2 port

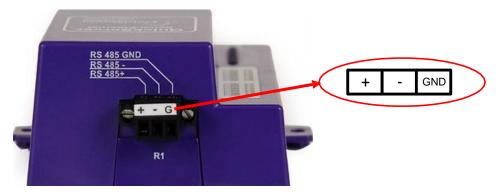


Connect to the 3 pins on the left-hand-side of the 6 pin connector as shown.

For connection to RS-232 or RS-422, please refer to Appendix A.2

4.1.2 RS-485 Connection R1 Port (Only on Non-LonWorks QuickServers

Connect to the 3-pin connector as shown.



4.2 QuickServer LonWorks - (PS-QS-1011/1511-XXXX)

Connect the QuickServer to the LonWorks terminal using a twisted pair non-shielded cable.



To commission the QuickServer LonWorks port, insert a small screwdriver in the commissioning hole on the face of the QuickServer's enclosure to access the Service Pin. See the instructions on the QuickServer as to which way to toggle the screwdriver during commissioning.

4.4.3 DIP Switches S0-S3

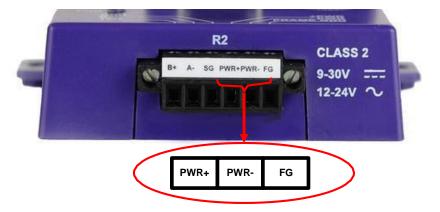
Refer to Appendix A.1 and Appendix A.1.3 for configuration example. The SO - S3 DIP switch selection is read directly into a Data Array. This Data_Array value can be used for customized operations such as configuration selection.



5 OPERATION

5.1 Power up the device

Apply power to the device. Ensure that the power supply used complies with the specifications provided in. Ensure that the cable is grounded using the "Frame GND" terminal. The QuickServer is factory set for 9-30VDC or 12-24VAC.



5.2 Connect the PC to the QuickServer over the Ethernet port.



Ethernet Port

Disable any wireless Ethernet adapters on the PC/Laptop.

Disable firewall and virus protection software .

Connect an Ethernet cable between the PC and QuickServer or connect the QuickServer and the PC to the Hub/switch using a straight cat5 cable.

The Default IP Address of the QuickServer is **192.168.2.X**, Subnet Mask is **255.255.255.0**. If the PC and the QuickServer are on different IP Networks, assign a Static IP Address to the PC on the 192.168.2.X network.

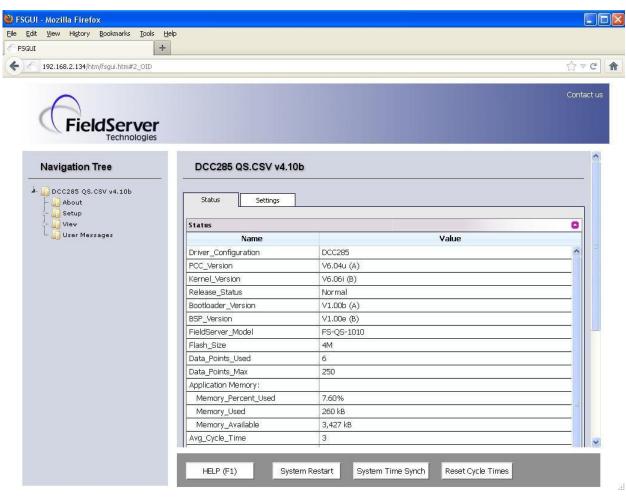
5.3 Use the FieldServer Web GUI to Connect to the QuickServer

5.3.1 Using the Discovery Tool to Allocate the IP address:

Install the Discovery tool from the USB drive or get it from our website http://fieldserver.com/techsupport/utility/utility.php

Use the Discovery tool to find the QuickServer, and launch the Web GUI from the Discovery tool





5.4 Set IP Address of the QuickServer

From the GUI main home page, click on setup and then Network Settings to enter the Edit IP Address Settings menu.

Modify the IP address (N1 IP address field) of the QuickServer Ethernet port.

If necessary, change the Netmask (N1 Netmask field).

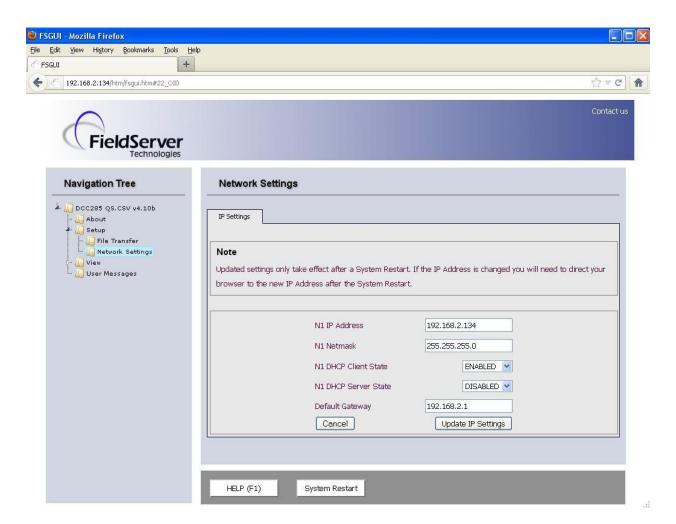
Type in a new Subnet Mask

If necessary, change the IP Gateway (Default Gateway field)

Type in a new IP Gateway

Note: If the FieldServer is connected to a router, the IP Gateway of the FieldServer should be set to the IP address of the router that it is connected to

Click Update IP Settings, then click on the System Restart to restart the Gateway and activate the new IP address. Note that the QuickServer will need to be pointed to the new IP address on the Web Browser before the GUI will be accessible again. Unplug Ethernet cable from PC and connect it to the network hub or router



6 CONFIGURING THE QUICKSERVER

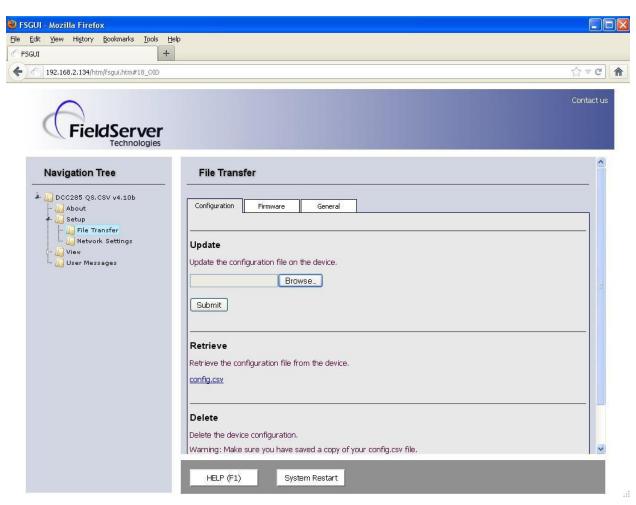
6.1 Retrieve the Sample Configuration File

The configuration of the QuickServer is provided to the QuickServer's operating system via a comma-delimited file called "CONFIG.CSV".

If a custom configuration was ordered, the QuickServer will be programmed with the relevant device registers in the Config.csv file for the first time start-up. If not, the product is shipped with a sample config.csv that shows an example of the drivers ordered.

In the main menu of the PS-GUI screen, go to Setup, File Transfer, Retrieve.

Click on config.csv, and open or save the file



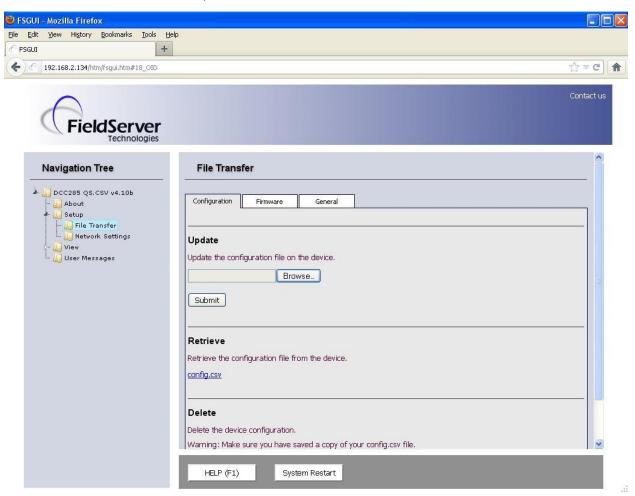
6.2 Change the Configuration File to Meet the Application

Refer to the FieldServer Configuration Manual in conjunction with the Driver supplements for information on configuring the QuickServer. See www.prosoft-technology.com/Support/forspecific details.

6.3 Load the Updated Configuration file

In the main menu of the FS-GUI screen, go to Setup, File Transfer, Update

Browse and select the .csv file, open, then click Submit

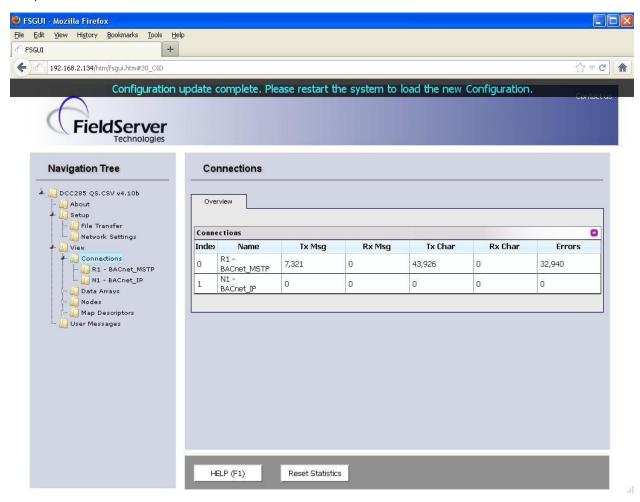


Once download is complete, click the System Restart Button (or simply cycle power to the QuickServer) to put the new file into operation. Note that it is possible to do multiple downloads to the QuickServer before resetting it.

6.4 Test and Commission the QuickServer

Connect the QuickServer to the third party device(s), and test the application.

From the main menu of PS-GUI click on View, Connections to see the number of messages on each protocol.



For troubleshooting assistance refer to Appendix B, or contact ProSoft technology Technical Support at www.prosoft-technology.com/Support/.

Appendix A Useful Features

Appendix A.1. QuickServer DIP Switch configuration

There are 3 DIP switches available on the QuickServer.

- A Address DIP Switch
- B Baud rate DIP Switch
- S Secondary DIP Switch

The following sections describe how to set up the DIP switches in the configuration file. To configure the use of the DIP switches, buffers need to be declared in the "Data Arrays" section which will enable them.

```
Data_Arrays
Data_Array_Name , Data_Format
                                     , Data_Array_Length
                                                            , Data Array Function , Scan Interval
                                      , 1
DA_A
                   , UINT16
                                                             , Dip_Switches_A
                                                                                    , 2s
DA B
                    , BAUD
                                      , 1
                                                             , Dip_Switches_B
                                                                                    , 2s
DA_S
                   , UINT16
                                     , 1
                                                            , Dip_Switches_S
                                                                                   , 2s
```

Appendix A.1.1. Configure DIP switches A0-A7

To configure DIP switches A0-A7 to adjust the Device Id, BACnet MAC address, or both, the dynamic parameters field needs to be added to the configuration file.

```
      Dynamic_Parameters

      Function
      , Data_Array_Name , Data_Array_Offset , Descriptor_Name , Low_Limit , High_Limit

      Change_Node_ID
      , DA_A
      , 0
      , Node_Name_A
      , 1
      , 4194303

      Change_System_MAC_Addr , DA_A
      , 0
      , Title_A
      , 1
      , 254
```

Appendix A.1.2. Configure DIP switches B0 - B3

To configure DIP switches B0-B3 to adjust the baud rate, the dynamic parameters field needs to be added to the configuration file.

```
Dynamic_Parameters

Function , Data_Array_Name , Data_Array_Offset , Descriptor_Name

Baud_Rate , DA_BAUD , 0 , P1
```

Appendix A.1.3. Configure DIP switches SO - S3

The SO - S3 DIP switch selection is read directly into a Data Array. This Data Array value can be used for customized operations such as config file selection which allows a FieldServer to be loaded with several configurations / profiles that are selected based on a Data Array value. See the example below where a Config Table and Dynamic Parameter can be used in conjunction with the DIP Switches to achieve this type of customization.

In this example, 5 configs will need to be downloaded to the QuickServer: config.csv (base config), profile1.csv, profile2.csv, profile3.csv and profile4.csv. The profile configs will be configured as per FieldServer standard configuration templates. The base config will be used to select the appropriate profile config to load.

Column Title	Legal Values			
		Up	to	32
Config_Table_Name	Provide name for Config Table	alphar	alphanumeric	
		charac	cters	
Table Index Value	A unique value that will be used to identify which table entry needs to			
Table_Illuex_value	be used.			
Table String	A String value, representing the filename of the profile to be loaded	1-10, 000		
Table_String	for the corresponding Table_Index_Value.			
	The specified config or profile is loaded on start-up. If the parameter			
	is configured as On_Change, the QuickServer will restart and reload	Up to 32 alphanumeric characters		
Restart_Method*	the specified config every time the Data_Array value changes.	_	p to 32 phanumeric naracters -10, 000	
	Otherwise the config or profile will remain unchanged even if the	ivever	′ –	
	Data_Array value changes.			

```
Data_Arrays
Data_Array_Name , Data_Format , Data_Array_Length , Data_Array_Function , Scan_Interval
DA_LOAD_CSV , UINT16 , 1 , Dip_Switches_S , 2s
```

```
Config Table
Config_Table_Name , Table_String , Table_Index_Value
                                                   // Profile config 1
csvfilenames
                       , profile1.csv
csvfilenames
                                       , 2
                                                   // Profile config 2
                       , profile2.csv
csvfilenames
                       , profile3.csv
                                                   // Profile config 3
                                        , 3
csvfilenames
                                                   // Profile config 4
                       , profile4.csv
```

```
Dynamic_Parameters

Function , Data_Array_Name , Data_Array_Offset , Config_Table_Name , Restart_Method load_csv , DA_LOAD_CSV , 2 , csvfilenames , On_Change
```

Note: In this example the value 0 has no operation, so if 0 is read on the dip switches no profile will be loaded. Similarly values larger than 4 will be ignored.

Appendix B Troubleshooting Tips

Appendix B.1. Communicating with the QuickServer over the Network

Confirm that the network cabling is correct.

Confirm that the computer network card is operational and correctly configured.

Confirm that there is an Ethernet adapter installed in the PC's Device Manager List, and that it is configured to run the TCP/IP protocol.

Check that the IP netmask of the PC matches the QuickServer. The Default IP Address of the QuickServer is 192.168.2.X, Subnet Mask is 255.255.255.0.

- o Go to Start | Run
- Type in "ipconfig"
- The account settings should be displayed.
- Ensure that the IP address is 102.168.2.X and the netmask 255.255.255.0

Ensure that the PC and QuickServer are on the same IP Network, or assign a Static IP Address to the PC on the 192.168.2.0 network.

If using Windows XP or later, ensure that the firewall is disabled.

Ensure that all other Ethernet cards active on the PC, especially wireless adapters are disabled.

Refer to the FieldServer Troubleshooting Guide which can be found at www.fieldserver.com/QS Support/ for further information

Appendix B.2. Technical support

Before contacting Technical support to report an issue, go to Start|Programs|FieldServer utilities|Tools and run the FST_Diag program. Take a log (See ENote0058 in the folder called Library on the USB Flash Drive). Send this log together with a detailed description of the problem to support@fieldserver.com for evaluation.

Note that while all necessary documentation is shipped with the FieldServer on the USB flash drive, these documents are constantly being updated. Newer versions may be available on the web at www.fieldserver.com/QS Support/

Appendix B.3. Notes Regarding Subnets and Subnet Masks

Please Note that RFC standards allocate the IP address range of 192.0.0.0 through to 223.255.255.255 to be used in Class-C subnetting (i.e.: Subnets listed as 255.255.255.xxx, where xxx can vary based on filtering required).

Consequently, the IP stack for this product will not allow any IP addresses in this range to be allocated a subnet that does not fall within the Class C range.

Appendix C Limited 2 year Warranty

FieldServer Technologies warrants its products to be free from defects in workmanship or material under normal use and service for two years after date of shipment. FieldServer Technologies will repair or replace any equipment found to be defective during the warranty period. Final determination of the nature and responsibility for defective or damaged equipment will be made by FieldServer Technologies personnel.

All warranties hereunder are contingent upon proper use in the application for which the product was intended and do not cover products which have been modified or repaired without FieldServer Technologies approval or which have been subjected to accident, improper maintenance, installation or application, or on which original identification marks have been removed or altered. This Limited Warranty also will not apply to interconnecting cables or wires, consumables or to any damage resulting from battery leakage.

In all cases FieldServer Technology's responsibility and liability under this warranty shall be limited to the cost of the equipment. The purchaser must obtain shipping instructions for the prepaid return of any item under this warranty provision and compliance with such instruction shall be a condition of this warranty.

Except for the express warranty stated above, FieldServer Technologies disclaims all warranties with regard to the products sold hereunder including all implied warranties of merchantability and fitness and the express warranties stated herein are in lieu of all obligations or liabilities on the part of FieldServer Technologies for damages including, but not limited to, consequential damages arising out of/or in connection with the use or performance of the product.

Appendix D Reference

Appendix D.1. PS-QS-1010/1510-XXXX LED's

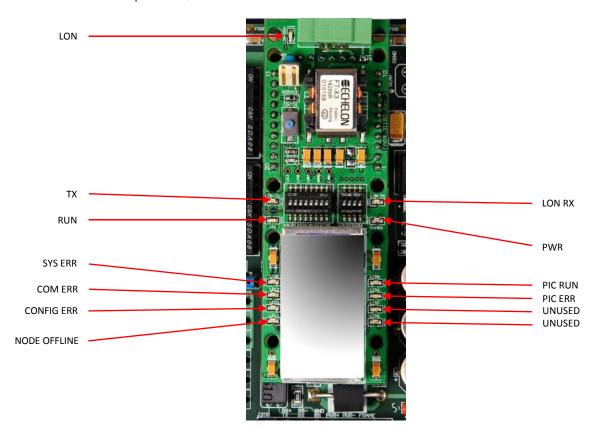


Appendix D.1.1. LED Functions

Light	Description
RTC	To Be Determined
	RUN LED will flash 20 seconds after power up, signifying normal operation. The QuickServer will be able
RUN	to access FS-GUI (refer to Section Error! Reference source not found. for more information) once this
	LED starts flashing. During the first 20 seconds, the LED should be off
	The ERR LED will go on solid 15 seconds after power up. It will turn off after 5 seconds. A steady red light
ERR	will indicate there is a system error on the FieldServer. If this occurs, immediately report the related
ENN	"system error" shown in the error screen of the FS-GUI interface to FieldServer Technologies for
	evaluation.
RX	On normal operation of PS-QS-1010, the RX LED will flash when a message is received on the field port of
NA.	the QuickServer.
ТХ	On normal operation of PS-QS-1010, the TX LED will flash when a message is sent on the field port of the
17	QuickServer
PWR	This is the power light and should show steady green at all times when the QuickServer is powered.

Appendix D.2. PS-QS-1011/1511-XXXX LED's

Note that the lid on top of the QuickServer has to be removed in order to see the LED's



Light	Description
PWR	This is the power light and should show steady green at all times when the PS-QS-1011-XXXX is powered.
SYS ERR (LED1)	The SYS ERR LED will flash once on power up and flash once 15 seconds after power up. A steady red light will indicate there is a system error on the PS-QS-1011-XXXX. If this occurs, immediately report the related "system error" shown in the error screen of the FS_GUI interface to FieldServer Technologies for evaluation.
COMM ERR (LED2)	The COMM ERR LED will flash once on power up and flash once 15 seconds after power up. A steady red light will indicate a communication error has occurred. To establish the cause of the error, go to the error screen of the RUI interface.
Config ERR (LED3)	The Config ERR LED will flash once on power up and flash once 15 seconds after power up. A steady amber light will indicate a configuration error exists in the active configuration. See the Error Screen in the Remote User Interface for a description of the configuration error.
Node Offline (LED4)	The Node Offline LED will flash once on power up and flash once 15 seconds after power up. If the Node Offline LED stays on solid, a Node Offline condition has occurred.
RUN (PIO)	The RUN LED will start flashing 20 seconds after power indicating normal operation. The PS-QS-1011-XXXX will be able to access FS-GUI once this LED starts flashing.
PIC RUN (LED5)	The PIC RUN LED will flash indicating normal operation.
PIC ERR (LED6)	The PIC ERR LED will go on solid indicating there is a PIC error.

Light	Description
LON-TX LED	On normal operation of PS-QS-1011/1511-XXXX, the TX LED will flash when a message is sent on the
LOIN-IX LED	point of the QuickServer.
LON-RX LED	On normal operation of PS-QS-1011/1511-XXXX, the RX LED will flash when a message is received
LOIN-KA LED	bort bert of the QuickServer.
LON-SRV	The LON-SRV LED will flash if the PS-QS-1011/1511-XXXX is configured for implicit addressing and
LED	not commissioned. LED will be off if the PS-QS-1011/1511-XXXX is configured for implicit
(next to Lon	addressing and commissioned or if it is configured for explicit addressing.
port)	
LED 7	Not used
LED 8	Not used

Appendix D.3. QuickServer PS-QS-101X DCC

Driver	Code
BACnet/IP – BACnet MS/TP	0285
BACnet/IP – LonWorks	0131
JCI Metasys N2 – LonWorks	0097
JCI Metasys N2- BACnet MS/TP	0309
JCI Metasys N2– BACnet/IP	0122
Modbus RTU – BACnet MS/TP	0367
Modbus RTU – BACnet/IP	0104
Modbus RTU – JCI Metasys N2	0038
Modbus RTU – LonWorks	0085
Modbus TCP – BACnet/IP	0237
Modbus TCP – LonWorks	0154
Modbus TCP – BACnet MS/TP	0419
Modbus TCP – JCI Metasys N2	0117
SNMP – BACnet/IP	0333
SNMP – LonWorks	0337
SNMP – JCI Metasys N2	0150
Add BACnet MS/TP - LonWorks	0345

Appendix D.4. Compliance with UL Regulations

For UL compliance, the following instructions must be met when operating the QuickServer.

The units shall be powered by listed LPS or Class 2 power supply suited to the expected operating temperature range.

The interconnecting power connector and power cable shall:

Comply with local electrical code.

Be suited to the expected operating temperature range.

Meet the current and voltage rating for the QuickServer/Net

Furthermore, the interconnecting power cable shall:

Be of length not exceeding 3.05m (118.3")

Be constructed of materials rated VW-1 or FT-1 or better.

If the unit is to be installed in an operating environment with a temperature above 65 °C, it should be installed in a Restricted Access Area requiring a key or a special tool to gain access

This device must not be connected to a LAN segment with outdoor wiring.

Appendix D.5. Address DIP Switch Settings

Address	A0	A1	A2	A3	A4	A5	A6	A7
0	Off							
1	On	Off						
2	Off	On	Off	Off	Off	Off	Off	Off
3	On	On	Off	Off	Off	Off	Off	Off
4	Off	Off	On	Off	Off	Off	Off	Off
5	On	Off	On	Off	Off	Off	Off	Off
6	Off	On	On	Off	Off	Off	Off	Off
7	On	On	On	Off	Off	Off	Off	Off
8	Off	Off	Off	On	Off	Off	Off	Off
9	On	Off	Off	On	Off	Off	Off	Off
10	Off	On	Off	On	Off	Off	Off	Off
11	On	On	Off	On	Off	Off	Off	Off
12	Off	Off	On	On	Off	Off	Off	Off
13	On	Off	On	On	Off	Off	Off	Off
14	Off	On	On	On	Off	Off	Off	Off
15	On	On	On	On	Off	Off	Off	Off
16	Off	Off	Off	Off	On	Off	Off	Off
17	On	Off	Off	Off	On	Off	Off	Off
18	Off	On	Off	Off	On	Off	Off	Off
19	On	On	Off	Off	On	Off	Off	Off
20	Off	Off	On	Off	On	Off	Off	Off
21	On	Off	On	Off	On	Off	Off	Off
22	Off	On	On	Off	On	Off	Off	Off
23	On	On	On	Off	On	Off	Off	Off
24	Off	Off	Off	On	On	Off	Off	Off
25	On	Off	Off	On	On	Off	Off	Off
26	Off	On	Off	On	On	Off	Off	Off
27	On	On	Off	On	On	Off	Off	Off
28	Off	Off	On	On	On	Off	Off	Off
29	On	Off	On	On	On	Off	Off	Off
30	Off	On	On	On	On	Off	Off	Off
31	On	On	On	On	On	Off	Off	Off
32	Off	Off	Off	Off	Off	On	Off	Off
33	On	Off	Off	Off	Off	On	Off	Off
34	Off	On	Off	Off	Off	On	Off	Off
35	On	On	Off	Off	Off	On	Off	Off
36	Off	Off	On	Off	Off	On	Off	Off
37	On	Off	On	Off	Off	On	Off	Off

Address	A0	A1	A2	A3	A4	A5	A6	A7
38	Off	On	On	Off	Off	On	Off	Off
39	On	On	On	Off	Off	On	Off	Off
40	Off	Off	Off	On	Off	On	Off	Off
41	On	Off	Off	On	Off	On	Off	Off
42	Off	On	Off	On	Off	On	Off	Off
43	On	On	Off	On	Off	On	Off	Off
44	Off	Off	On	On	Off	On	Off	Off
45	On	Off	On	On	Off	On	Off	Off
46	Off	On	On	On	Off	On	Off	Off
47	On	On	On	On	Off	On	Off	Off
48	Off	Off	Off	Off	On	On	Off	Off
49	On	Off	Off	Off	On	On	Off	Off
50	Off	On	Off	Off	On	On	Off	Off
51	On	On	Off	Off	On	On	Off	Off
52	Off	Off	On	Off	On	On	Off	Off
53	On	Off	On	Off	On	On	Off	Off
54	Off	On	On	Off	On	On	Off	Off
55	On	On	On	Off	On	On	Off	Off
56	Off	Off	Off	On	On	On	Off	Off
57	On	Off	Off	On	On	On	Off	Off
58	Off	On	Off	On	On	On	Off	Off
59	On	On	Off	On	On	On	Off	Off
60	Off	Off	On	On	On	On	Off	Off
61	On	Off	On	On	On	On	Off	Off
62	Off	On	On	On	On	On	Off	Off
63	On	On	On	On	On	On	Off	Off
64	Off	Off	Off	Off	Off	Off	On	Off
65	On	Off	Off	Off	Off	Off	On	Off
66	Off	On	Off	Off	Off	Off	On	Off
67	On	On	Off	Off	Off	Off	On	Off
68	Off	Off	On	Off	Off	Off	On	Off
69	On	Off	On	Off	Off	Off	On	Off
70	Off	On	On	Off	Off	Off	On	Off
71	On	On	On	Off	Off	Off	On	Off
72	Off	Off	Off	On	Off	Off	On	Off
73	On	Off	Off	On	Off	Off	On	Off
74	Off	On	Off	On	Off	Off	On	Off
75	On	On	Off	On	Off	Off	On	Off
76	Off	Off	On	On	Off	Off	On	Off
77	On	Off	On	On	Off	Off	On	Off
78	Off	On	On	On	Off	Off	On	Off
79	On	On	On	On	Off	Off	On	Off
80	Off	Off	Off	Off	On	Off	On	Off
81	On	Off	Off	Off	On	Off	On	Off
82	Off	On	Off	Off	On	Off	On	Off

Address	A0	A1	A2	A3	A4	A5	A6	A7
83	On	On	Off	Off	On	Off	On	Off
84	Off	Off	On	Off	On	Off	On	Off
85	On	Off	On	Off	On	Off	On	Off
86	Off	On	On	Off	On	Off	On	Off
87	On	On	On	Off	On	Off	On	Off
88	Off	Off	Off	On	On	Off	On	Off
89	On	Off	Off	On	On	Off	On	Off
90	Off	On	Off	On	On	Off	On	Off
91	On	On	Off	On	On	Off	On	Off
92	Off	Off	On	On	On	Off	On	Off
93	On	Off	On	On	On	Off	On	Off
94	Off	On	On	On	On	Off	On	Off
95	On	On	On	On	On	Off	On	Off
96	Off	Off	Off	Off	Off	On	On	Off
97	On	Off	Off	Off	Off	On	On	Off
98	Off	On	Off	Off	Off	On	On	Off
99	On	On	Off	Off	Off	On	On	Off
100	Off	Off	On	Off	Off	On	On	Off
101	On	Off	On	Off	Off	On	On	Off
102	Off	On	On	Off	Off	On	On	Off
103	On	On	On	Off	Off	On	On	Off
104	Off	Off	Off	On	Off	On	On	Off
105	On	Off	Off	On	Off	On	On	Off
106	Off	On	Off	On	Off	On	On	Off
107	On	On	Off	On	Off	On	On	Off
108	Off	Off	On	On	Off	On	On	Off
109	On	Off	On	On	Off	On	On	Off
110	Off	On	On	On	Off	On	On	Off
111	On	On	On	On	Off	On	On	Off
112	Off	Off	Off	Off	On	On	On	Off
113	On	Off	Off	Off	On	On	On	Off
114	Off	On	Off	Off	On	On	On	Off
115	On	On	Off	Off	On	On	On	Off
116	Off	Off	On	Off	On	On	On	Off
117	On	Off	On	Off	On	On	On	Off
118	Off	On	On	Off	On	On	On	Off
119	On	On	On	Off	On	On	On	Off
120	Off	Off	Off	On	On	On	On	Off
121	On	Off	Off	On	On	On	On	Off
122	Off	On	Off	On	On	On	On	Off
123	On	On	Off	On	On	On	On	Off
124	Off	Off	On	On	On	On	On	Off
125	On	Off	On	On	On	On	On	Off
126	Off	On	On	On	On	On	On	Off
127	On	On	On	On	On	On	On	Off

Address	A0	A1	A2	A3	A4	A5	A6	A7
128	Off	On						
129	On	Off	Off	Off	Off	Off	Off	On
130	Off	On	Off	Off	Off	Off	Off	On
131	On	On	Off	Off	Off	Off	Off	On
132	Off	Off	On	Off	Off	Off	Off	On
133	On	Off	On	Off	Off	Off	Off	On
134	Off	On	On	Off	Off	Off	Off	On
135	On	On	On	Off	Off	Off	Off	On
136	Off	Off	Off	On	Off	Off	Off	On
137	On	Off	Off	On	Off	Off	Off	On
138	Off	On	Off	On	Off	Off	Off	On
139	On	On	Off	On	Off	Off	Off	On
140	Off	Off	On	On	Off	Off	Off	On
141	On	Off	On	On	Off	Off	Off	On
142	Off	On	On	On	Off	Off	Off	On
143	On	On	On	On	Off	Off	Off	On
144	Off	Off	Off	Off	On	Off	Off	On
145	On	Off	Off	Off	On	Off	Off	On
146	Off	On	Off	Off	On	Off	Off	On
147	On	On	Off	Off	On	Off	Off	On
148	Off	Off	On	Off	On	Off	Off	On
149	On	Off	On	Off	On	Off	Off	On
150	Off	On	On	Off	On	Off	Off	On
151	On	On	On	Off	On	Off	Off	On
152	Off	Off	Off	On	On	Off	Off	On
153	On	Off	Off	On	On	Off	Off	On
154	Off	On	Off	On	On	Off	Off	On
155	On	On	Off	On	On	Off	Off	On
156	Off	Off	On	On	On	Off	Off	On
157	On	Off	On	On	On	Off	Off	On
158	Off	On	On	On	On	Off	Off	On
159	On	On	On	On	On	Off	Off	On
160	Off	Off	Off	Off	Off	On	Off	On
161	On	Off	Off	Off	Off	On	Off	On
162	Off	On	Off	Off	Off	On	Off	On
163	On	On	Off	Off	Off	On	Off	On
164	Off	Off	On	Off	Off	On	Off	On
165	On	Off	On	Off	Off	On	Off	On
166	Off	On	On	Off	Off	On	Off	On
167	On	On	On	Off	Off	On	Off	On
168	Off	Off	Off	On	Off	On	Off	On
169	On	Off	Off	On	Off	On	Off	On
170	Off	On	Off	On	Off	On	Off	On
171	On	On	Off	On	Off	On	Off	On
172	Off	Off	On	On	Off	On	Off	On

Address	A0	A1	A2	A3	A4	A5	A6	A7
173	On	Off	On	On	Off	On	Off	On
174	Off	On	On	On	Off	On	Off	On
175	On	On	On	On	Off	On	Off	On
176	Off	Off	Off	Off	On	On	Off	On
177	On	Off	Off	Off	On	On	Off	On
178	Off	On	Off	Off	On	On	Off	On
179	On	On	Off	Off	On	On	Off	On
180	Off	Off	On	Off	On	On	Off	On
181	On	Off	On	Off	On	On	Off	On
182	Off	On	On	Off	On	On	Off	On
183	On	On	On	Off	On	On	Off	On
184	Off	Off	Off	On	On	On	Off	On
185	On	Off	Off	On	On	On	Off	On
186	Off	On	Off	On	On	On	Off	On
187	On	On	Off	On	On	On	Off	On
188	Off	Off	On	On	On	On	Off	On
189	On	Off	On	On	On	On	Off	On
190	Off	On	On	On	On	On	Off	On
191	On	On	On	On	On	On	Off	On
192	Off	Off	Off	Off	Off	Off	On	On
193	On	Off	Off	Off	Off	Off	On	On
194	Off	On	Off	Off	Off	Off	On	On
195	On	On	Off	Off	Off	Off	On	On
196	Off	Off	On	Off	Off	Off	On	On
197	On	Off	On	Off	Off	Off	On	On
198	Off	On	On	Off	Off	Off	On	On
199	On	On	On	Off	Off	Off	On	On
200	Off	Off	Off	On	Off	Off	On	On
201	On	Off	Off	On	Off	Off	On	On
202	Off	On	Off	On	Off	Off	On	On
203	On	On	Off	On	Off	Off	On	On
204	Off	Off	On	On	Off	Off	On	On
205	On	Off	On	On	Off	Off	On	On
206	Off	On	On	On	Off	Off	On	On
207	On	On	On	On	Off	Off	On	On
208	Off	Off	Off	Off	On	Off	On	On
209	On	Off	Off	Off	On	Off	On	On
210	Off	On	Off	Off	On	Off	On	On
211	On	On	Off	Off	On	Off	On	On
212	Off	Off	On	Off	On	Off	On	On
213	On	Off	On	Off	On	Off	On	On
214	Off	On	On	Off	On	Off	On	On
215	On	On	On	Off	On	Off	On	On
216	Off	Off	Off	On	On	Off	On	On
217	On	Off	Off	On	On	Off	On	On

Address	A0	A1	A2	A3	A4	A5	A6	A7
218	Off	On	Off	On	On	Off	On	On
219	On	On	Off	On	On	Off	On	On
220	Off	Off	On	On	On	Off	On	On
221	On	Off	On	On	On	Off	On	On
222	Off	On	On	On	On	Off	On	On
223	On	On	On	On	On	Off	On	On
224	Off	Off	Off	Off	Off	On	On	On
225	On	Off	Off	Off	Off	On	On	On
226	Off	On	Off	Off	Off	On	On	On
227	On	On	Off	Off	Off	On	On	On
228	Off	Off	On	Off	Off	On	On	On
229	On	Off	On	Off	Off	On	On	On
230	Off	On	On	Off	Off	On	On	On
231	On	On	On	Off	Off	On	On	On
232	Off	Off	Off	On	Off	On	On	On
233	On	Off	Off	On	Off	On	On	On
234	Off	On	Off	On	Off	On	On	On
235	On	On	Off	On	Off	On	On	On
236	Off	Off	On	On	Off	On	On	On
237	On	Off	On	On	Off	On	On	On
238	Off	On	On	On	Off	On	On	On
239	On	On	On	On	Off	On	On	On
240	Off	Off	Off	Off	On	On	On	On
241	On	Off	Off	Off	On	On	On	On
242	Off	On	Off	Off	On	On	On	On
243	On	On	Off	Off	On	On	On	On
244	Off	Off	On	Off	On	On	On	On
245	On	Off	On	Off	On	On	On	On
246	Off	On	On	Off	On	On	On	On
247	On	On	On	Off	On	On	On	On
248	Off	Off	Off	On	On	On	On	On
249	On	Off	Off	On	On	On	On	On
250	Off	On	Off	On	On	On	On	On
251	On	On	Off	On	On	On	On	On
252	Off	Off	On	On	On	On	On	On
253	On	Off	On	On	On	On	On	On
254	Off	On	On	On	On	On	On	On
255	On	On	On	On	On	On	On	On

Appendix D.6. Baud DIP Switch Settings

Baud	В0	B1	B2	В3
Auto⁴	Off	Off	Off	Off
110	On	Off	Off	Off
300	Off	On	Off	Off
600	On	On	Off	Off
1200	Off	Off	On	Off
2400	On	Off	On	Off
4800	Off	On	On	Off
9600	On	On	On	Off
19200	Off	Off	Off	On
20833	On	Off	Off	On
28800	Off	On	Off	On
38400	On	On	Off	On
57600	Off	Off	On	On
76800	On	Off	On	On
115200	Off	On	On	On

⁴ Auto-baud is only supported for BACnet MS/TP