FS-8705-46 – Farenhyt Black Series FACP Serial Driver

DATASHEET – Rev 2

DESCRIPTION

This serial driver connects via RS232 to the printer port of a Farenhyt Series Black FACP. The driver is capable of being linked with other FieldServer drivers to form regular FieldServer firmware that can be installed on all of our gateways. Eg/ QuickServer. Other drivers can access the Farenhyt FACP data and serve this data using other protocols such as BACnet and Modbus. Over 120 protocols are supported. Any can be linked.

The driver is a passive client driver. It does not poll for data. It waits passively for the panel to transmit data. When an event is sent to the gateway it evaluates the event and turns data points on/off. These points are mapped onto BACnet / Modbus etc objects so the BMS can read them,

The driver cannot be used to simulate a FARENHYT FACP . Because only the passive client side of the protocol is implemented.

CONNECTION FACTS

FIELDSERVER MODE	NODES	COMMENTS
Passive Client	Many	Normally at a site the FACP's are connected together and the gateway is connected to the printer port of Panel 1

FORMAL DRIVER TYPE

Serial RS485 OR RS232
Passive Client

FS-8705-46 – Farenhyt Series Black FACP

COMPATIBILITY

FIELDSERVER MODEL	COMPATIBLE
FS-1010/2010/2011/ (and Legacy)	Yes
FS-35 Series	Yes
FS-QS Series	Yes

CONNECTION INFORMATION

Connection type:	RS485 or RS232
Baud Rates:	Driver Supports: 110; 300; 600; 1200; 2400; 4800; **9600**; 19200; 28800; 38400; 57600 Baud Counter supports 1200, **9600**
Data Bits:	Driver Supports: 7,**8** Counter supports: 8
Stop Bits:	Driver Supports: **1**,2 Counter supports: 1
Parity:	Driver Supports: Odd, Even, **None** Counter supports: None
Hardware interface:	N/A There is no flow control
Multidrop Capability	No.

DEVICES TESTED

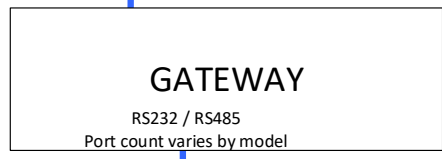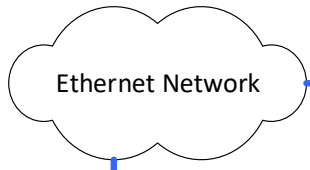| DEVICE	TESTED (FACTORY, SITE)
None	2020 Honeywell office , Dubai, UAE Emaar Business Park, Building 2, 2nd FloorP.O. Box 232362, Sheikh Zayed Road

CONNECTION CONFIGURATIONS

Multiple upstream protocols and connection supported. See list of FieldServer Drivers.

Free BACnet test software with purchase*
Confidently test the BACnet interface.
Discover devices and their objects. Test
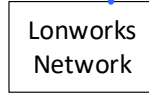and document them. Arm yourself with a
powerful field tool. Full license.

Ethernet Network

Other ethernet protocols such as
- HTTP, XML
- BACnet IP or Eth
- Modbus TCP
- AB-CSP
- Ethernet/IP
- SNMP, Telnet
- GE-EGD, GE-SRTP
- Omron FINS
- DNP3
  And more…

Other serial protocols such as
- Bacnet MSTP
- Modbus RTU, ASCII, and other flavors
- Rockwell DF1
- GE-SNP
- JCI Metasys N2
  And more…

GATEWAY

RS232 / RS485
Port count varies by model

RS232

Lonworks Network

Over 120 Protocols
We are always adding and can add yours.

Other bus protocols such as
- Profibus
- DeviceNet
- DH+
- Modbus+
- ControlNet
- BACnet Arcnet

Bluetooth Wireless Cell

Honeywell | Farenhyt™ Series
THE POWER OF **CONNECTED**

Fire Alarm and Emergency Communications Systems

HOW THE DRIVER WORKS

Data is stored in Data Arrays with special names. The name indicates the type of event being stored. The items in red are the Data Array names. See section *Error! Reference source not found. Error! Reference source not found.*

When a Module is in alarm – its corresponding point in the Module Data array will be set to 1. Ditto for Sensors and Zones

    Eg Receive this MODULE message

        Manual Pull Alarm Zone 001 [M97:M0003]

        Data Array set as follows : P1M97PHYTmods [3] = 1

    Eg Receive this MODULE message

        Manual Pull Alarm Restore Zone 001 [M01:M0003]

        Data Array set as follows : P1M01PHYTmods [3] = 0

    Eg Receive this SENSOR message

        Manual Pull Alarm Restore Zone 001 [M97:S0011]

        Data Array set as follows : P1M97PHYTsens [11] = 1

    Eg. Receive this ZONE message

        Manual Pull Alarm Zone 009

        Data Array set as follows : FHYTzones [9] = 1

    Eg. Receive this SYSTEM message

        System Power Up

        Data Array set as follows : FHYTsys [x] = 1

        Find the Value of x in Appendix B

FUTURE PROOF

The System Event messages that the driver recognizes can be added to or changed without having to change the driver.

PROTOCOL SERVICES SUPPORTED / NOT SUPPORTED

The driver processes all event messages

Evaluating if a Module, Sensor, Zone or System event has occurred.
Evaluating if the event is an activation or a restore

MULTIPLE PANELS

Driver supports networked FACP's.
Driver can only connect to Panel 1's printer port.
All networked panel events must be vectored to this port.
The driver assumes the default panel is 1.
If there is only one panel, then the data arrays for the other panels may be removed.

CUSTOMER SUPPORT

Farenhyt Series Black FACP Driver for FieldServer was developed by Chipkin, and we are proud to provide support for our products. For technical support, sales and customer service, please call us at 1 (866) 383-1657.

Thanks for choosing Chipkin's products and integration services to meet your building and industrial automation requirements!

Chipkin™ is a building and industrial automation protocol expert. We develop, configure, install and support gateways (protocol converters), data loggers and remote monitor and controlling applications. Founded in October 2000, Chipkin provides expert solutions for converting BACnet®, Modbus®, and LonWorks®—to name just a few—and enabling interfaces for HVAC, fire, siren, intercom, lighting, transportation and fuel systems. The high-quality products we offer (including those from other vendors) interface with Simplex™, Notifier™, McQuay™, GE™ and many others—so you can rest assured that we will select the most appropriate solution for your application.

With Chipkin you are buying a solution. Our configuration expertise in this field combined with free BACnet and other tools ensure your success; and our customer support via phone, email and remote desktop tools means that we are there when you need us. Chipkin is a small responsive company, and we live or die by the quality of our service—and with offices in two time zones—we can provide support when you need it. Give us a call now!

Sales and Customer Service

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Email: salesgroup1@chipkin.com

REVISION HISTORY

DATE	RESP.	DRIVER VERSION	DOCUMENT REVISION	COMMENTS
Jun 2020	PMC	0.00	0	Created
10 Mar 2021	PMC	1.02	1	New connection diagrams Changes to the Data Array names
17 Jun 2021	YC	1.02	2	Updated to latest template