FieldServer Driver
FS8705-38
'Mydax Chillers'

Description

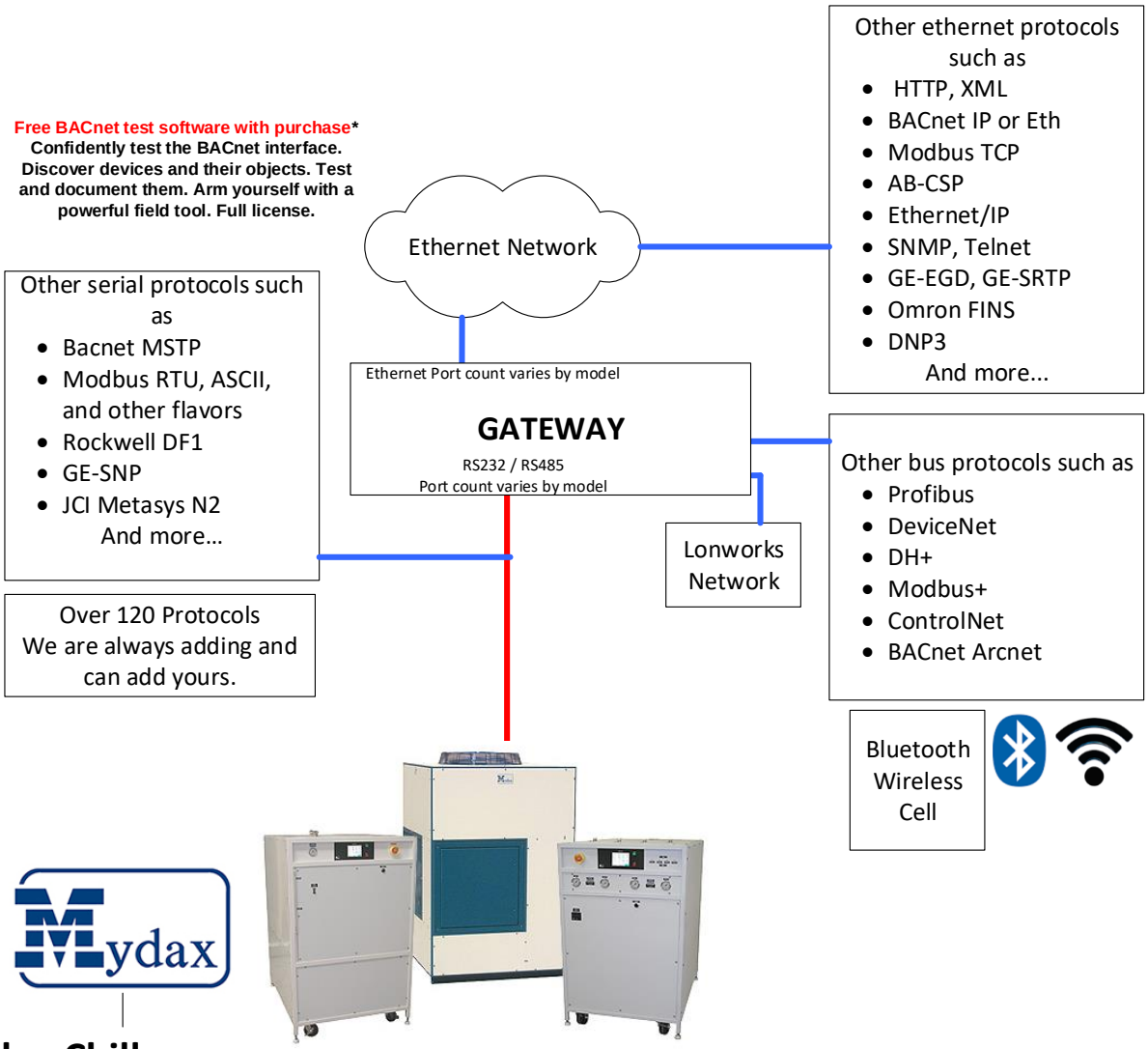
This serial driver is used to operate and monitor Mydax Chillers. It connects to the chiller using one it's RS232 ports. The driver is capable of issuing operational commands, changing setpoints and reading operational and status information.

The driver is capable of being linked with other FieldServer drivers to form regular FieldServer firmware that can be installed on QuickServer and other FieldServer gateways. Other drivers can access the EKM Meter data and serve using other protocols such as BACnet and Modbus .

The driver is an active client driver in that it poll's for data – reading or writing data from chiller . It cannot be used to simulate a chiller.

Connection configurations

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



Max Nodes Supported

FieldServer Mode	Nodes	Comments
Client	One	*One Chiller per gateway RS232 port. Gateways with 1 or 2 RS232 ports available.*
Server	0	*Not supported or documented.*

Formal Driver Type

Serial RS232
Passive Client

Compatibility Matrix

FieldServer Model	Compatible with this driver
FS-2010/2011/4010 (Legacy)	Yes,
FS-35 Series	Yes,
FS-QS Series	Yes,

Connection Information

Connection type:	EIA232
Baud Rates:	Driver Supports : 9600; 19200; 28800; 38400; 57600 Baud .
Data Bits:	Driver Supports : 7,**8**
Stop Bits:	Driver Supports : **1**,2
Parity:	Driver Supports : Odd, Even, **None**
Hardware interface:	N/A There is no flow control
Multidrop Capability	No.

Protocol Services Supported / Not Supported

Protocol Service	Supported
GO Start Chiller	Yes
HA Stop Chiller	Yes
RP Run Pump	Yes
RS Reset System	Yes
RO Remote Set Mode	Yes
AO Analog Set Mode	Yes
RF Local Set Mode	Yes
CH Clear History	Yes
LA, LB, LC, LD Individual Loop On/Off	Yes
SA, SB, SC, SD Set Temp. Setpoint	Yes
VA, VB, VC, VD Set VFD Drive	Yes
FA, FB, FC, FD Set Flow Setpoint	Yes
PA, PB, PC, PD Set Pressure Setpoint	Yes
SS Get Temp. Setpoint	Yes
SM Get Temp. Set Mode	Yes
VF Get VFD Drive	Yes
FS Get Flow Setpoint	Yes
PX Get Pressure Setpoint	Yes
SN Get Servo Mode	Yes
SO Get Last Servo Mode	Yes
PR Get HTF Pressure	Yes
AL Get Alarms	Yes
AH Get Alarms History	Yes
RT Get Runtime	Yes
PS Get Board Voltages	Yes
TE1 Get Basic Chiller Status	Yes
TE4 Get Extended Chiller Status	Yes
Recorder – various services	No

Devices tested

Device	Tested (FACTORY, SITE)
Opdax 3000 Series Controller	

Sending Commands to the Meter

Some services allow you to send data to / command the meter. Such as 'Set Setpoint'. In these cases, when data is sent from the other protocol (eg BACnet) then this data is extracted from the Data Arrays and sent tot the Meter. This can occur on-update or on-time-interval.

Support

Please contact Chipkin Automation Systems directly for driver support.

Revision History

Date	Resp	Format	Driver Ver.	Doc. Rev.	Comment
2019Jan21	PMC		1.00	1	Created