

QS-3XX0



FS-8705-45 – HACH Ultra Met One R4800 Particle Counter Serial Driver

DATASHFFT - Rev 1

DESCRIPTION

This serial driver connects to a trunk of 1 or more R4800 Counters that support the R4800 protocol as defined in the R4800 Operator Manual. It is capable of reading log records and status data from each transmitter as well as being able to send commands to the counter,

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 R4800 Counter's 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 counters. It cannot be used to simulate a R4800. Because only the client side of the protocol is implemented.

CONNECTION FACTS

FIELDSERVER MODE	NODES	COMMENTS
Client	Many	Number of Counters is determined by vendor and RS485 limitations. Trunks of dozens of devices supported.
Server	0	Not supported or documented.

FORMAL DRIVER TYPE

Serial RS485 OR RS232 Passive Client

COMPATIBILITY

FIELDSERVER MODEL	COMPATIBLE
FS-2010/2011/4010 (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

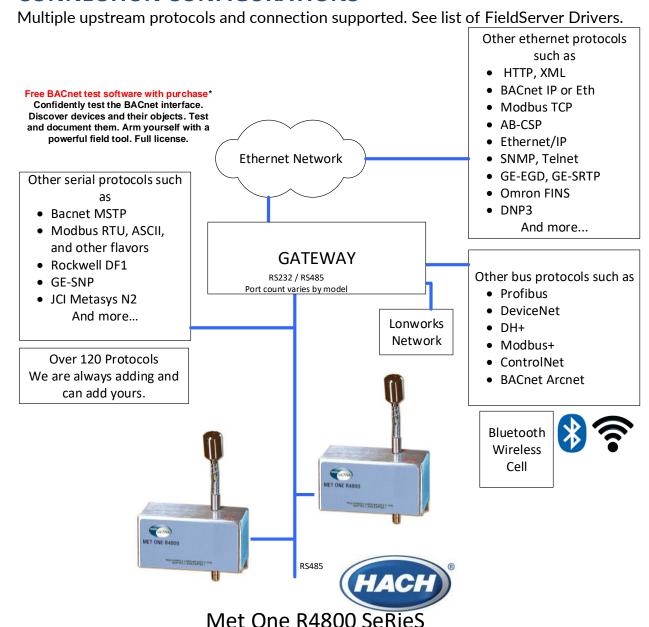
Hardware Interface: N/A There is no flow control

Multidrop Capability: Yes

DEVICES TESTED

DEVICE	TESTED (FACTORY, SITE)
None	2019Dec Customer Lab
	(This section of the manual may be obsolete.
	This driver might have field experience by now
	because it was ordered for a project. Ask our
	sales department.

CONNECTION CONFIGURATIONS



Protocol Services Supported / Not Supported

Supported
Supported
Not supported. Ask. It can be.

AVAILABLE DATA

Each record contains the following Fields

status indicator
month
day
year
hour
minute
second
period
ch1_size
ch1_count
ch2_size
Ch2_count
location

Counter mode reports

No alarms	
Check Sensor	
Alarm/count alarm	
Check Sensor and alarm	

Hold Time and Sample Frequency have the following fields

hour		
minute		
second		

HOW THE DRIVER WORKS

Each counter must be selected before other services to read or write to the counter can be used. Selection requires that a message is sent for the appropriate counter. The driver takes care of this. If the next task to be executed is for a different counter than the previous one then the driver automatically does a counter selection – sending the select message, waiting for the response. Only then will it execute the task.

Thus, it is not necessary to configure tasks for device selection in the gateway configuration.

SENDING COMMANDS TO THE METER

These commands can be triggered.

CUSTOMER SUPPORT

Hach Ultra Met One R4800 Counter 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.

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REVISION HISTORY

DATE	RESP.	DRIVER VERSION	DOCUMENT REVISION	COMMENTS
Dec 2019	PMC	0.00	0	Created
17 Jun 2021	YC	0.00	1	Updated to latest template