

# FS-8705-15 – Networked Robotics NTMS4 Temperature Sensor Modules

DATASHEET – Rev 3

## DESCRIPTION

The NTMS4 driver can read temperatures from Networked Robotics NTMS4 modules using TCP/IP connections.

The driver can process data from multiple modules. The IP Address and Socket Port can be configured for each module.

The driver reads the temperature and cannot perform configuration of the module. It expects that the modules are correctly configured using the Vendor's software or Instructions. The driver can store three data elements per module. The time stamp (in seconds since 1970) of the last time good data was obtained, the temperature data and a status value which is set non-zero when the module reports and error. If the module cannot be reached, then the FieldServer will (after a configurable number of retries) mark the node offline. This state and the 3 data elements can be monitored using another protocol.

The driver can only be used as a client. Minimal server functionality is provided only to support our ongoing quality assurance program by facilitating automated testing of the driver. It is not documented or supported. If required, please contact the FST sales group to discuss your requirements.



## CONNECTION FACTS

FIELDSEVER MODE	NODES	COMMENTS
Client	Many	The FieldServer will be able to poll multiple modules. The driver will support a max of 200 remote sensors. The driver has been tested with 70 remote sensors.
Server	0	Not supported or documented.

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## FORMAL DRIVER TYPE

Ethernet  
Client

## COMPATIBILITY

FIELDSEVER MODEL	COMPATIBLE
FS-x2010	Yes
FS-x2011	Yes
FS-x40	Yes
FS-X30	Yes

## CONNECTION INFORMATION

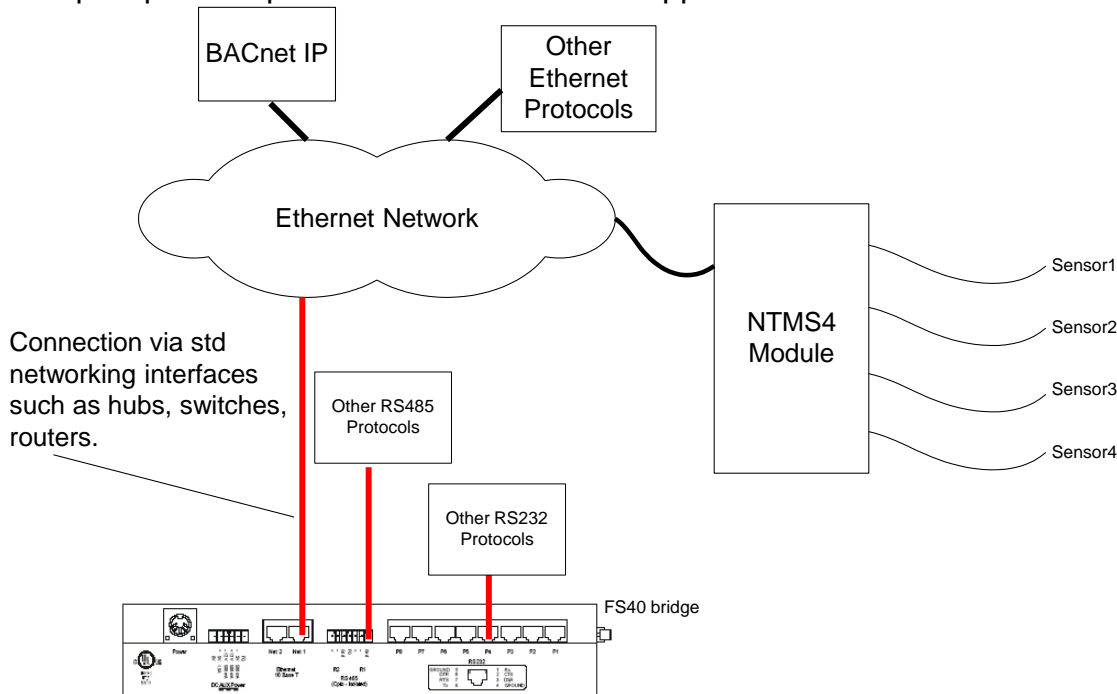
Connection Type: Ethernet TCP/IP  
Hardware Interface: **FieldServer Ethernet Adapters (N1 / N2 as available)**  
Multidrop Capability: No  
Source Port: Configurable

## DEVICES TESTED

DEVICE	TESTED (FACTORY, SITE)
rack1/2/3/4/5.networkedrobotics.com	Factory

## CONNECTION CONFIGURATIONS

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



## DRIVER FUNCTIONALITY

Temperatures are reported as floating point numbers in the format  $+ -xxx.y$ . The driver stores data as floating point numbers and it is recommended that an appropriate data array type such as 'FLOAT' be used.

Each time a response is obtained which contained 'Err-' or 'Error-', then the driver extracts the number following the dash and stores that as a status value. If there is no error then the driver stores the value zero to the status value. When an error is reported the driver can, if configured correctly, store a specified value as the temperature value. Thus, it is easy for a consumer of the data to see if the temperature is no longer valid.

## CUSTOMER SUPPORT

OPCUA 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!

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## Sales and Customer Service

Toll Free: +1 866 383 1657

Email: salesgroup1@chipkin.com

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## REVISION HISTORY

DATE	RESP.	DRIVER VERSION	DOCUMENT REVISION	COMMENTS
21 Apr 2009	PMC	0.00	0	Created
29 Apr 2009	PMC	0.00	1	Updated connection diagram
12 May 2009	PMC	0.00	2	Updated to say max=200
19 Jun 2004	YC	0.00	3	Updated to latest template