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FS-8705-10 – 'LanSTAR' Serial Driver

Suitable when the LanStar must be retained.

DATASHEET – Rev 2

DESCRIPTION

This driver is used to exchange data between a FieldServer and a 'MicroSTAR' devices by polling the LanStar they are connected to. When this driver is used the gateway must be connected to 1 of the 4 ports on the Lanstar.

Each MicroSTAR device has 4x AO, 4x AI, 4x DI, 4x DO and 4x Counters. Setpoints, virtual Digital Outputs, any virtual points or virtual Microstars all reside in the memory of the LanStar and are thus accessible using this driver.

The driver can monitor the status of these points and write to the outputs.

This is an active client driver. The FieldServer is the client. The LanSTAR devices are the passive servers. The Client sends messages and processes responses from the LanSTAR's.

The driver is a serial driver using a RS232 serial ports to connect between the FieldServer and the LanSTAR's..

The driver is fully compatible with other FieldServer drivers and meets FieldServer's quality assurance standards. The driver was developed by Chipkin Automation Systems, an Approved FieldServer Integrator.

Only Client functionality have been implemented. This means that you can use the driver as a client to monitor/command the devices. Server functionality is not supported thus you cannot use it a server to make another type of device appear as if it were a LanSTAR device.

CONNECTION FACTS

FIELDSERVER MODE	NODES	COMMENTS
Active Client	32	A maximum of 16 devices may be connected per trunk. This is a limitation of the protocol which only allows 32 possible addresses as 2 trunks can be connected to one LanStar.

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FORMAL DRIVER TYPE

Serial
Active Client

COMPATIBILITY

FIELDSERVER MODEL	COMPATIBLE
FS-x2010-01	Yes
FS-x2011-01	Yes
FS-x40	Yes
FS-X30	Yes
QuickServer's	Any with RS485 port.

CONNECTION INFORMATION

Connection Type:	EIA485
Baud Rates:	Driver Supports: 110; 300; 600; 1200; 2400; **4800**; 9600; 19200; 28800; 38400; 57600; 115200 Baud *MicroSTAR* supports: 4800
Data Bits:	Driver Supports: 7,**8** *MicroSTAR* supports: 8
Stop Bits:	Driver Supports: **1**,2 *MicroSTAR* supports: 2
Parity:	Driver Supports: Odd, **Even**, None *MicroSTAR* supports: none
Hardware Interface:	N/A
Multidrop Capability:	Yes

DEVICES TESTED

DEVICE	TESTED (FACTORY, SITE)
Barrington MicroStar-II Std Barrington LanStar	Office

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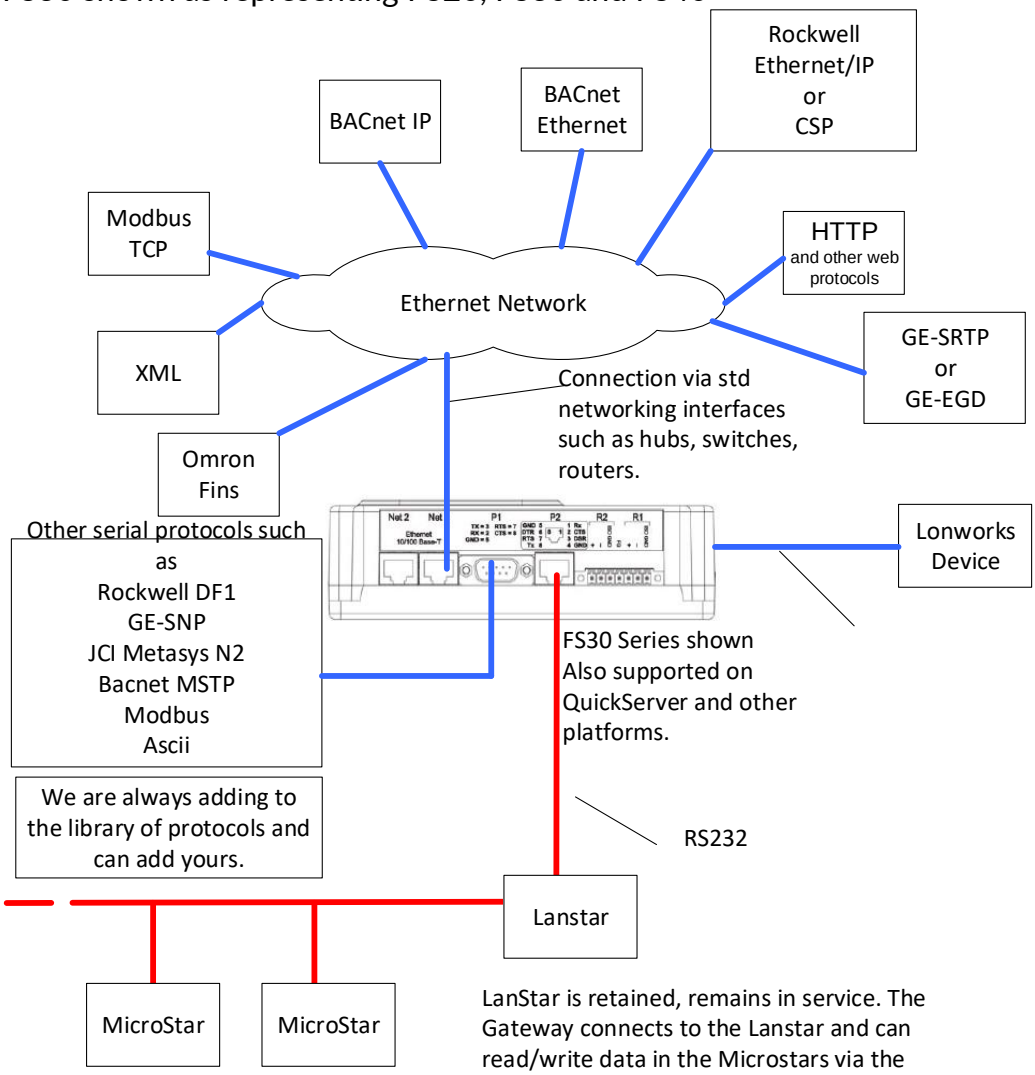
CONNECTION CONFIGURATIONS

FS30 shown as representing FS20, FS30 and FS40



LanStar is retained, remains in service. The Gateway connects to the Lanstar and can read/write data in the Microstars via the Lanstar. **A great solution if you need to keep the LanStar in service.**

FS-8705-26 Barrington LanStar Protocol
(Get Microstar data via the LanStar)

COMMUNICATION FUNCTIONS

FUNCTION	NOTES
Poll Request	Can Write to Do,Ao and SP points including virtual Do's.
Poll Request	Read. Can read Ai,Ao,Di,Do,SP,Counters including virtual DO's on a real MicroSTAR

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CUSTOMER SUPPORT

LanSTAR Serial 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.

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REVISION HISTORY

DATE	RESP.	DRIVER VERSION	DOCUMENT REVISION	COMMENTS
10 Sept 2014	PMC	0.00	0	Created
15 Jun. 2021	YC	0.00	2	Updated to latest template