

1 **DESCRIPTION**

The KNX driver allows the FieldServer to transfer data to and from devices using KNX protocol. The Fieldbus connection is included with the FieldServer. The FieldServer can emulate a Passive Client.

The KNX driver enables data access from KNX networks to other FieldServer protocols. Most KNX data point types are supported, allowing communication to almost any kind of KNX device in the installation, such as temperature sensors, shutters, light switches, actuators, alarms etc. This allows BMS systems to access a KNX network using direct read and write of KNX configured groups. This setup does not require the use of ETS4 to configure the QuickServer KNX gateway.

The KNX protocol is a connectionless protocol and therefore supports multiple clients and multiple servers.

The QuickServer is intended to act as a Passive Client on the KNX bus and make information available to other protocols.

FieldServer Mode	Nodes	Comments
Client	255	Maximum number in a KNX bus zone

2 FORMAL DRIVER TYPE

Fieldbus

Passive Client

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-x2010	No
FS-x2011	No
FSx25	No
FS-x30	No
FS-x40	No
SlotServer	No
ProtoNode	No
QuickServer FS-QS-10xx	No
QuickServer FS-QS-12xx	Yes
ProtoCessor FPC-FO2	No
ProtoCessor FPC-FD2	No

4 CONNECTION INFORMATION

Connection type:	KNX
Baud Rates:	19200 Only
Data Bits:	8
Stop Bits:	1
Parity:	Odd Only
Hardware interface:	KNX TP
Multidrop Capability:	Yes

5 **DEVICES TESTED**

Device	Tested (FACTORY, SITE)
UP562/11 Siemens Binary Relay Output	FACTORY
UP220/21 Siemens Pushbutton Interface	FACTORY
E981.03 Elmos KNX Temperature, Pushbutton & Dimmer Demoboard	FACTORY
RMU720B/RMU730B Siemens Universal Controllers	SITE
Input MTN649908	SITE
Switch MTN6174xx	SITE

5 COMMUNICATIONS FUNCTIONS -SUPPORTED FUNCTIONS AT A GLANCE:

6.1 Data Types Supported

KNX		Recommended
Datapoint	Description	Data Array
Name		Value
DPT1	1-bit Binary Switch	BYTE
DPT2	2-bit Step Control	BYTE
DPT3	4-bit Dimming	BYTE
DPT4	8-bit Set	BYTE
DPT5	8-bit Unsigned Value	BYTE
DPT6	8-bit Signed Value	SINT16
DPT7	16-bit Unsigned Value	UINT16
DPT8	16-bit Signed Value	SINT16
	16-bit Floating point	FLOAT
DP19	value	
DPT12	32-bit Unsigned Value	UINT32
DPT13	32-bit Signed Value	SINT32
DPT14	32-bit Float	FLOAT
DPT15	32-bit Access	UINT32
DPT17	8-bit Scene Number	BYTE

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DPT18	8-bit Scene Control	BYTE
DPT20	8-bit Enum Value	BYTE

6.2 Read Operations supported

FieldServer as a Client	FieldServer as a Server
Request Group Address Values	Respond to Group Requests
	Store Group Address Values

6.3 Write (Control) Operations supported

FieldServer as a Client	FieldServer as a Server
Broadcast Group	Broadcast Group Address
Address Values	Values

6.4 Unsupported Functions and Data Types

Function	Reason
Programming messages	FieldServer is a data transfer device,
	and as such, programming
	messages are not required

6.5 **Functions Described**

The communication nature on a KNX network are best described using ARS, and RDBX, and WRBX functions as oppose to RDBC and WRBC functions.