A Sierra Monitor Company

Driver Manual
(Supplement to the FieldServer Instruction Manual)

FS-8700-36 Weigh-Tronix

APPLICABILITY & EFFECTIVITY

Effective for all systems manufactured after May 1, 2001

Instruction Manual Part Number FS-8700-36

Version: N/A

2/18/2004

Table of Contents

1. Weigh-Tronix Description

The Weigh-Tronix driver allows the FieldServer to transfer data to and from devices over either RS-232 or RS-485 using Weigh-Tronix protocol. The FieldServer emulates a Client only.

The information that follows describes how to expand upon the factory defaults provided in the configuration files included with the FieldServer.

Devices Supported		
Manuf	**Model**	**Notes**
Weigh-Tronix	WI 125	
Weigh-Tronix	WI 127	
Weigh-Tronix	WI 130	
*Other devices – contact FST		

1.1 Hardware/Software

Supplied by FieldServer Technologies.

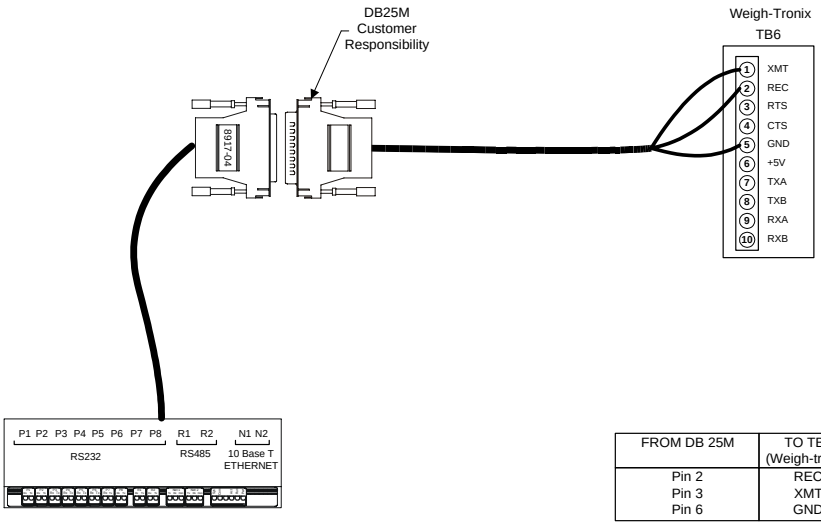
FieldServer Technologies PART #	DESCRIPTION
FS-8915-10	UTP cable (7 foot) for RS-232 use
FS-8917-01	RJ45 to DB25M connector adapter

Provided by user

PART #	DESCRIPTION
	Weigh-Tronix Simposer Software
	Cables for PC to scale to configure scale

2. FieldServer as a Weigh-Tronix Client

2.1 Hardware Connections



FROM DB 25M	TO TB6 (Weigh-tronix)
Pin 2	REC
Pin 3	XMT
Pin 6	GND

2.1.1 Setting up the Scale

Setting up the scale requires installing and executing Weigh-Tronix Surposer software. This has to be obtained from Weigh-Tronix and installed per their user manual.

The procedure below is just a summary of the steps required to configure the Scale and any technical support regarding the scale should be obtained from Weigh-Tronix.

a. Install Simposer
b. Start Weigh-Tronix Simposer
c. Editors/Configure/Serial Ports/end of message = 05
   Serial port = 1
   Baud = 9600
   Parity = none
   Data Bits = 8
   Handshake = none
   Mode = basic control
d. Connect computer to scale as instructed by Weigh-Tronix
e. Editors/Program
   Enter the following program
   sub com1_message
   fmtprint (1)
   end sub
   getcom$(1)
   end sub
   Close editor
f. Editors/print formats

G {gross} lb \r\n
T {tare} lb \r\n\
N {net} lb \r\n
Select Print Format = 1
Select Port = 1

f. Close editor
g. Save configuration
h. Download Com 1 or Com 2
Wait for double beep
Wait for single beep
i. Exit WI-130 config
j. Attach Model FieldServer FieldServer per dwg etc.

2.1.2 Configuration File Structure

Note that * indicates an optional parameter, with the bold legal value being the default.

2.1.2.1 Data Arrays

Section Title
Data_Arrays

Column Title	Function	Legal Values
Data_Array_Name	Provide name for Data Array	Up to 15 alphanumeric characters
Data_Format	Provides data format	INT16, INT32, BIT, **FLOAT**
Data_Array_Length	Number of Data Objects	1-10,000

Example

```
//  Data Arrays

Data_Arrays
Data_Array_Name,        Data_Format, Data_Array_Length
DA_AI,                  Float,       100
```

Client Side Connections

Section Title		
Connections		
Column Title	**Function**	**Legal Values**
Port	Specify which port the device is connected to the FieldServer	P1-P8, R1-R2
Baud *	Specify baud rate	300-**9600**-38400
Parity *	Specify parity	Even, Odd, **None**
Data_Bits	Specify data bits	7, **8**
Stop_Bits		
Handshaking	Specify hardware handshaking	RTS, RTS/CTS, **None**
Timeout	Specify Timeout defaults must not be used	Weigh-Tronix 10.05

Example

```
//    Client Side Connections

Connections
Port,          Baud,          Timeout
p8,            9600,          10.0s
```

2.1.2.2 Client Side Nodes

Section Title		
Nodes		
Column Title	**Function**	**Legal Values**
Node_Name	Provide name for node	Up to 32 alphanumeric characters
Protocol	Specify protocol used	Weigh-Tronix
Timeout	Specify Timeout defaults must not be used	Weigh-Tronix 10.05

Example

```
//    Client Side Nodes

Nodes
Node_Name,          Protocol,          Port
Scale1,             Weigh-Tronix,      P8
```

2.1.2.3 Client Side Map Descriptors

Section Title
Map_Descriptors

Column Title	Function	Legal Values
Map_Descriptor_Name	Name of this Map Descriptor	Up to 32 alphanumeric characters
Data_Array_Name	Name of Data Array where data is to be stored in the FieldServer	One of the Data Array names from “Data Array” section above
Data_Array_Offset	Starting location in Data Array	0 to maximum specified in “Data Array” section above
Function	Function of Client Map Descriptor	RDBC, WRBC, WRBX
Node_Name	Name of Node to fetch data from	One of the node names specified in “Client Node Descriptor” above
Address	Starting address of read block	0
Length	Length of data array	3
Data_Array_Low_Scale*	Scaling zero in Data Array	-32767 to 32767, **default 0**
Data_Array_High_Scale*	Scaling max in Data Array	-32767 to 32767, **default 100**
Node_Low_Scale*	Scaling zero in Connected Node	-32767 to 32767, **default 0**
Node_High_Scale*	Scaling max in Connected Node	-32767 to 32767, **default 100**

Example

```
// Client Side Map Descriptors

Map_Descriptor
Map_Descriptor_Name, Data_Array_Name, Data_Array_Location, Function, Node_Name, Address, Length
wtio_MAP,       DA_AI,          0,              RDBC,     Scale1,    0,       3,
```

3. Revision History

Date	Driver Version	Document Revision	Comment
04/22/02	1.00d	1	Revision history added
2/18/04	1.00d	2	Releasing