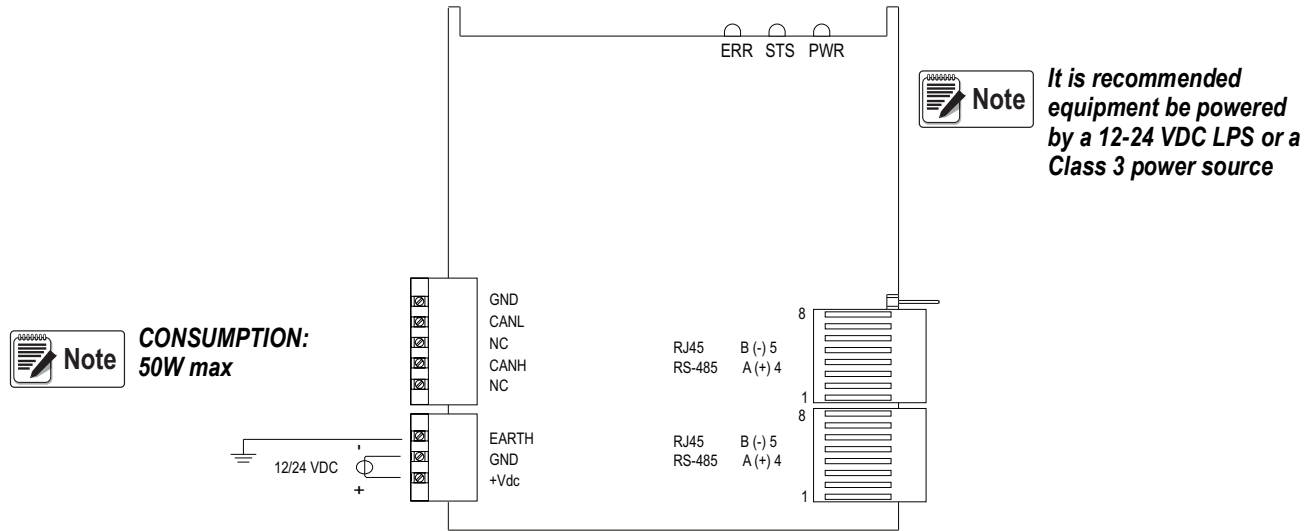


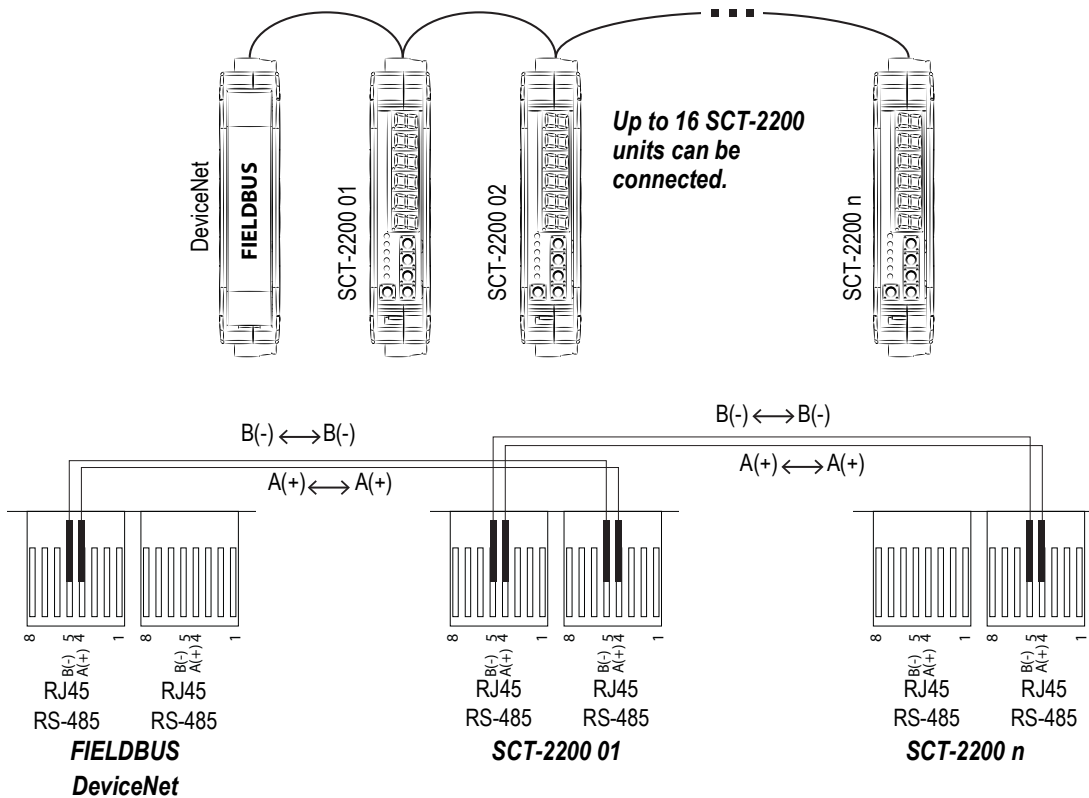
DeviceNet™ Quick Setup Guide

Electrical Diagram



Module Connection to SCT-2200 Transmitters

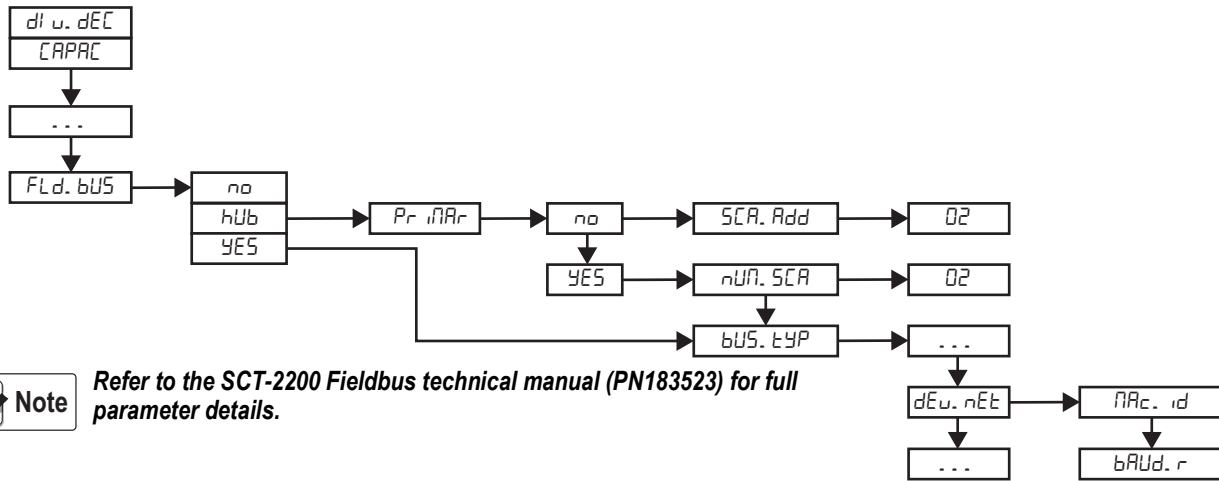
Use the RJ45 and RS-485 directional ports to connect the DeviceNet Fieldbus Module to one or more SCT-2200



Configuration

The weight transmitter menu is used to configure the DeviceNet Module.

1. Reboot the weight transmitter.
2. Press the **▶** key while the display check is in progress to access the menu:



Note Refer to the SCT-2200 Fieldbus technical manual (PN183523) for full parameter details.

Parameter Descriptions

hUb

Enables HUB mode

NAc. id

Sets the **NAc. id** of the module

Pr iNAr

In HUB mode, identifies the **primary scale** in the network to set the Parameters

bAUd. r

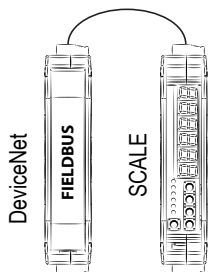
Selects the baud rate (10 Kb/s to 1 Mb/s)



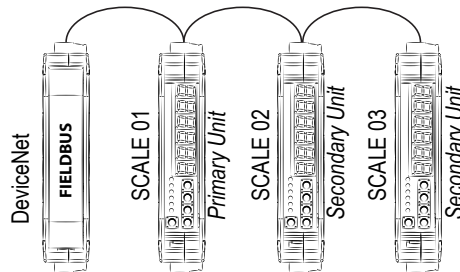
Note If **FLdbUS = YES** or **hUb**, **RS-485 baud rate is automatically set to 115,200 and scale address = 0 1**.

Functioning Modes

Single Scale Mode



Hub Mode



Up to 16 SCT-2200 units can be connected.

Single Scale Mode Configuration

	Scale
hUb	no
nod. Add	00
bAUd. r	500 Kb

Hub Mode Configuration

Primary	Scale 1
hUb	YES
Pr iNAr	YES
nod. Add	00
bAUd. r	500 Kb
nUN. SCA	3

Secondary	Scale 02	Scale 03
hUb	YES	YES
Pr iNAr	no	no
SCA. Add	2	3

In hub mode all of the parameters must be configured for the primary unit (scale 01). Secondary units need only a few parameters

Input Data (for data reading) - Single Scale Mode

Data	Byte	DESCRIPTION	EXAMPLE																														
Gross Weight	1(MSB)	Bytes 1, 2, 3 and 4 contain the gross weight value	<table border="1"> <thead> <tr> <th colspan="5">Gross weight value examples</th> </tr> <tr> <th></th> <th>1000</th> <th>6000</th> <th>15000</th> <th>350000</th> </tr> </thead> <tbody> <tr> <td>1(MSB)</td> <td>00 Hex</td> <td>00 Hex</td> <td>00 Hex</td> <td>00 Hex</td> </tr> <tr> <td>2</td> <td>00 Hex</td> <td>00 Hex</td> <td>00 Hex</td> <td>05 Hex</td> </tr> <tr> <td>3</td> <td>03 Hex</td> <td>17 Hex</td> <td>3A Hex</td> <td>57 Hex</td> </tr> <tr> <td>4(LSB)</td> <td>E8 Hex</td> <td>70 Hex</td> <td>98 Hex</td> <td>30 Hex</td> </tr> </tbody> </table>	Gross weight value examples						1000	6000	15000	350000	1(MSB)	00 Hex	00 Hex	00 Hex	00 Hex	2	00 Hex	00 Hex	00 Hex	05 Hex	3	03 Hex	17 Hex	3A Hex	57 Hex	4(LSB)	E8 Hex	70 Hex	98 Hex	30 Hex
	Gross weight value examples																																
				1000	6000	15000	350000																										
	1(MSB)			00 Hex	00 Hex	00 Hex	00 Hex																										
2	00 Hex	00 Hex	00 Hex	05 Hex																													
3	03 Hex	17 Hex	3A Hex	57 Hex																													
4(LSB)	E8 Hex	70 Hex	98 Hex	30 Hex																													
2																																	
3																																	
4(LSB)																																	
Net Weight	5(MSB)	Bytes 5, 6, 7 and 8 contain the net weight value	<table border="1"> <thead> <tr> <th colspan="5">Net weight value examples</th> </tr> <tr> <th></th> <th>1000</th> <th>6000</th> <th>15000</th> <th>350000</th> </tr> </thead> <tbody> <tr> <td>5(MSB)</td> <td>00 Hex</td> <td>00 Hex</td> <td>00 Hex</td> <td>00 Hex</td> </tr> <tr> <td>6</td> <td>00 Hex</td> <td>00 Hex</td> <td>00 Hex</td> <td>05 Hex</td> </tr> <tr> <td>7</td> <td>03 Hex</td> <td>17 Hex</td> <td>3A Hex</td> <td>57 Hex</td> </tr> <tr> <td>8(LSB)</td> <td>E8 Hex</td> <td>70 Hex</td> <td>98 Hex</td> <td>30 Hex</td> </tr> </tbody> </table>	Net weight value examples						1000	6000	15000	350000	5(MSB)	00 Hex	00 Hex	00 Hex	00 Hex	6	00 Hex	00 Hex	00 Hex	05 Hex	7	03 Hex	17 Hex	3A Hex	57 Hex	8(LSB)	E8 Hex	70 Hex	98 Hex	30 Hex
	Net weight value examples																																
				1000	6000	15000	350000																										
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8(LSB)	E8 Hex	70 Hex	98 Hex	30 Hex																													
6																																	
7																																	
8(LSB)																																	
Input Status	9(MSB)	Bit 7(LSB) No function Bit 6 No function Bit 5 No function Bit 4 No function Bit 3 No function Bit 2 No function Bit 1 Status of input n.2 (0 = OFF; 1 = ON) Bit 0(LSB) Status of input n.1 (0 = OFF; 1 = ON)	<table border="1"> <thead> <tr> <th colspan="5">Input status</th> </tr> <tr> <th></th> <th>IN1 = OFF IN2 = OFF</th> <th>IN1 = ON IN2 = OFF</th> <th>IN1 = OFF IN2 = ON</th> <th>IN1 = ON IN2 = ON</th> </tr> </thead> <tbody> <tr> <td>9(MSB)</td> <td>00 Hex</td> <td>01 Hex</td> <td>02 Hex</td> <td>03 Hex</td> </tr> <tr> <td>10(LSB)</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>	Input status						IN1 = OFF IN2 = OFF	IN1 = ON IN2 = OFF	IN1 = OFF IN2 = ON	IN1 = ON IN2 = ON	9(MSB)	00 Hex	01 Hex	02 Hex	03 Hex	10(LSB)	--	--	--	--										
	Input status																																
	IN1 = OFF IN2 = OFF	IN1 = ON IN2 = OFF	IN1 = OFF IN2 = ON	IN1 = ON IN2 = ON																													
9(MSB)	00 Hex	01 Hex	02 Hex	03 Hex																													
10(LSB)	--	--	--	--																													
10(LSB)	Bit 7(MSB) 1 = Scale unloaded (gross weight = 0) Bit 6 Tare PT (1 = PT tare is active) Bit 5 Tare (1 = Tare is active) Bit 4 Overload condition (0 = No; 1 = Overload) Bit 3 Underload condition (0 = No; 1 = Underload) Bit 2 Weight Stability (0 = Unstable; 1 = Stable) Bit 1 Gross Weight Polarity (0 = "+"; 1 = "-") Bit 0(LSB) Net Weight Polarity (0 = "+"; 1 = "-")	If BYTE 10(LSB) = 45 HEX: <table border="1"> <thead> <tr> <th>Bit 7</th> <th>Bit 6</th> <th>Bit 5</th> <th>Bit 4</th> <th>Bit 3</th> <th>Bit 2</th> <th>Bit 1</th> <th>Bit 0</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> </tr> </tbody> </table> Bit 0 = Net weight is negative Bit 1 = Gross weight is positive Bit 2 = Weight is stable Bit 5/6 = A Preset Tare is in memory	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	0	1	1	0	0	1	0	1															
Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0																										
0	1	1	0	0	1	0	1																										
--	11(MSB)	Bit7 Heartbeat status bit toggles from 1 to 0 every second																															
Command Status Register	12(LSB)	Bit 7(MSB) Last command result	Bit 0 to Bit 3 are used to count received commands, from 0 (0000) to 15 (1111). Bit 4 to Bit 7 are used to indicate the result of the last received command: <table border="1"> <thead> <tr> <th>Bit 7</th> <th>Bit 6</th> <th>Bit 5</th> <th>Bit 4</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>Command OK</td> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>Incorrect command</td> </tr> <tr> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>Incorrect command data</td> </tr> <tr> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>Command not allowed</td> </tr> <tr> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>Non-existent command</td> </tr> </tbody> </table>	Bit 7	Bit 6	Bit 5	Bit 4	Result	0	0	0	0	Command OK	0	0	0	1	Incorrect command	0	0	1	0	Incorrect command data	0	0	1	1	Command not allowed	0	1	0	0	Non-existent command
		Bit 7		Bit 6	Bit 5	Bit 4	Result																										
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Bit 4 Last command result																																	
Bit 3 Counting of processed commands																																	
Bit 2 Counting of processed commands																																	
Bit 1 Counting of processed commands																																	
Bit 0(LSB) Counting of processed commands																																	
--	13(MSB)	No Function																															
Output Status register	14(LSB)	Bit 7(MSB) No function	<table border="1"> <thead> <tr> <th colspan="5">Output status</th> </tr> <tr> <th></th> <th>IN1 = OFF IN2 = OFF</th> <th>IN1 = ON IN2 = OFF</th> <th>IN1 = OFF IN2 = ON</th> <th>IN1 = ON IN2 = ON</th> </tr> </thead> <tbody> <tr> <td>13(MSB)</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>14(LSB)</td> <td>00 Hex</td> <td>01 Hex</td> <td>02 Hex</td> <td>03 Hex</td> </tr> </tbody> </table>	Output status						IN1 = OFF IN2 = OFF	IN1 = ON IN2 = OFF	IN1 = OFF IN2 = ON	IN1 = ON IN2 = ON	13(MSB)	--	--	--	--	14(LSB)	00 Hex	01 Hex	02 Hex	03 Hex										
		Output status																															
				IN1 = OFF IN2 = OFF	IN1 = ON IN2 = OFF	IN1 = OFF IN2 = ON	IN1 = ON IN2 = ON																										
13(MSB)	--	--	--	--																													
14(LSB)	00 Hex	01 Hex	02 Hex	03 Hex																													
...																																	
Bit 2 No function																																	
Bit 1 Digital output 2 status (0 = OFF; 1 = ON)																																	
Bit 0(LSB) Digital output 1 status (0 = OFF; 1 = ON)																																	
--	15	--																															
...																																	
--	32	--																															

Input Data (for data reading) - Hub Mode

DATA*	1	2	3	4	...	16	DESCRIPTION/EXAMPLE																																							
In/Out Status	1	9	17	25	...	121	<table border="1"> <thead> <tr> <th>Bit 7</th> <th>Bit 6</th> <th>Bit 5</th> <th>Bit 4</th> <th>Bit 3</th> <th>Bit 2</th> <th>Bit 1</th> <th>Bit 0</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>Bit 7 Scale present bit (Fixed value = 1) Bit 6/5 Progressive command loop counter; Values: 0 (00), 1 (01), 2 (10), 3 (11) Bit 4 Last command result (0 = OK; 1 = ERROR) Bit 3 Status of output n.2 (0 = OFF; 1 = ON) Bit 2 Status of output n.1 (0 = OFF; 1 = ON) Bit 1 Status of input n.2 (0 = OFF; 1 = ON) Bit 0 Status of input n.1 (0 = OFF; 1 = ON)</p> <p>EXAMPLE: If Byte 1 = 13 Hex:</p> <table border="1"> <thead> <tr> <th>Bit 7</th> <th>Bit 6</th> <th>Bit 5</th> <th>Bit 4</th> <th>Bit 3</th> <th>Bit 2</th> <th>Bit 1</th> <th>Bit 0</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>1</td> </tr> </tbody> </table> <p>Bit 0 = Input 1 is ON Bit 2 = Output 1 is ON Bit 3 = Output 2 is ON</p>								Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	0	0	0	0	0	0	0	0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	0	0	0	0	1	1	0	1
							Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0																																
0	0	0	0	0	0	0	0																																							
Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0																																							
0	0	0	0	1	1	0	1																																							
Gross Weight	2(MSB)	10(MSB)	18(MSB)	26(MSB)	...	122(MSB)	For each scale there are three bytes containing the gross weight value <table border="1"> <thead> <tr> <th>1</th> <th>3000 kg</th> </tr> </thead> <tbody> <tr> <td>2(MSB)</td> <td>00 Hex</td> </tr> <tr> <td>3</td> <td>0B Hex</td> </tr> <tr> <td>4(LSB)</td> <td>B8 Hex</td> </tr> </tbody> </table>								1	3000 kg	2(MSB)	00 Hex	3	0B Hex	4(LSB)	B8 Hex																								
	1	3000 kg																																												
	2(MSB)	00 Hex																																												
3	0B Hex																																													
4(LSB)	B8 Hex																																													
3	11	19	27	...	123																																									
4(LSB)	12(LSB)	20(LSB)	28(LSB)	...	124(LSB)																																									
Scale Status	5	13	21	29	...	125	<table border="1"> <thead> <tr> <th>Bit 7</th> <th>Bit 6</th> <th>Bit 5</th> <th>Bit 4</th> <th>Bit 3</th> <th>Bit 2</th> <th>Bit 1</th> <th>Bit 0</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>Bit 7 1 = Scale unloaded (gross weight = 0) Bit 6 Tare PT (1 = PT tare is active) Bit 5 Tare (1 = Tare is active) Bit 4 Overload condition (0 = No; 1 = Overload) Bit 3 Underload condition (0 = No; 1 = Underload) Bit 2 Weight Stability (0 = Unstable; 1 = Stable) Bit 1 Gross Weight Polarity (0 = "+"; 1 = "-") Bit 0 Net Weight Polarity (0 = "+"; 1 = "-")</p> <p>EXAMPLE: If BYTE 5 = 45 HEX:</p> <table border="1"> <thead> <tr> <th>Bit 7</th> <th>Bit 6</th> <th>Bit 5</th> <th>Bit 4</th> <th>Bit 3</th> <th>Bit 2</th> <th>Bit 1</th> <th>Bit 0</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> </tr> </tbody> </table> <p>Bit 0 = Net weight is negative Bit 1 = Gross weight is positive Bit 2 = Weight is stable Bit 5/6 = A Preset Tare is in memory</p>								Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	0	0	0	0	0	0	0	0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	0	1	1	0	0	1	0	1
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Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0																																							
0	1	1	0	0	1	0	1																																							
Net Weight	6(MSB)	14(MSB)	22(MSB)	30(MSB)	...	126(MSB)	For each scale there are three bytes containing the net weight value <table border="1"> <thead> <tr> <th>3</th> <th>1000 kg</th> </tr> </thead> <tbody> <tr> <td>22(MSB)</td> <td>00 Hex</td> </tr> <tr> <td>23</td> <td>03 Hex</td> </tr> <tr> <td>24(LSB)</td> <td>E8 Hex</td> </tr> </tbody> </table>								3	1000 kg	22(MSB)	00 Hex	23	03 Hex	24(LSB)	E8 Hex																								
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	22(MSB)	00 Hex																																												
23	03 Hex																																													
24(LSB)	E8 Hex																																													
7	15	23	31	...	127																																									
8(LSB)	16(LSB)	24(LSB)	32(LSB)	...	128(LSB)																																									

Output Data (for sending commands)

Command	Byte	Description	Example																																								
Transmitter ID	1	Select the transmitter to receive the command:	To zero the weight of transmitter number 4:																																								
		<table border="1"> <thead> <tr> <th>Transmitter</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Transmitter 01</td> <td>01 Hex</td> </tr> <tr> <td>Transmitter 02</td> <td>02 Hex</td> </tr> <tr> <td>Transmitter 03</td> <td>03 Hex</td> </tr> <tr> <td>...</td> <td>... Hex</td> </tr> <tr> <td>Transmitter 16</td> <td>10 Hex</td> </tr> </tbody> </table> <p>NOTE: Transmitter ID must be set for each command.</p>	Transmitter	Value	Transmitter 01	01 Hex	Transmitter 02	02 Hex	Transmitter 03	03 Hex Hex	Transmitter 16	10 Hex	<table border="1"> <thead> <tr> <th>Byte</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>04 Hex</td> </tr> <tr> <td>2</td> <td>01 Hex</td> </tr> </tbody> </table>	Byte	Value	1	04 Hex	2	01 Hex																						
Transmitter	Value																																										
Transmitter 01	01 Hex																																										
Transmitter 02	02 Hex																																										
Transmitter 03	03 Hex																																										
...	... Hex																																										
Transmitter 16	10 Hex																																										
Byte	Value																																										
1	04 Hex																																										
2	01 Hex																																										
Command	2	Main available commands:	EXAMPLE 1 For setting a preset tare of 1000 kg:																																								
		<table border="1"> <thead> <tr> <th>Value</th> <th>Command</th> </tr> </thead> <tbody> <tr> <td>00 Hex</td> <td>No command</td> </tr> <tr> <td>01 Hex</td> <td>Scale zeroing</td> </tr> <tr> <td>02 Hex</td> <td>Tare</td> </tr> <tr> <td>03 Hex</td> <td>Preset Tare</td> </tr> <tr> <td>0A Hex</td> <td>Setpoint 1 setting</td> </tr> <tr> <td>0B Hex</td> <td>Setpoint 2 setting</td> </tr> <tr> <td>19 Hex</td> <td>Digital output setting</td> </tr> <tr> <td>22 Hex</td> <td>Reboot the weight transmitter</td> </tr> <tr> <td>23 Hex</td> <td>Read the calibration data</td> </tr> <tr> <td>24 Hex</td> <td>Write the calibration data</td> </tr> <tr> <td>25 Hex</td> <td>Calibration point acquisition</td> </tr> <tr> <td>26 Hex</td> <td>Abort the calibration procedure</td> </tr> <tr> <td>28 Hex</td> <td>Lock keyboard (parameter 1 = 0); Unlock keyboard (parameter 1 = 1)</td> </tr> </tbody> </table> <p>NOTE: To repeat the last command, set the command to "No command" value (0000 Hex) then repeat the command.</p>	Value	Command	00 Hex	No command	01 Hex	Scale zeroing	02 Hex	Tare	03 Hex	Preset Tare	0A Hex	Setpoint 1 setting	0B Hex	Setpoint 2 setting	19 Hex	Digital output setting	22 Hex	Reboot the weight transmitter	23 Hex	Read the calibration data	24 Hex	Write the calibration data	25 Hex	Calibration point acquisition	26 Hex	Abort the calibration procedure	28 Hex	Lock keyboard (parameter 1 = 0); Unlock keyboard (parameter 1 = 1)	<ol style="list-style-type: none"> 1. Set the transmitter address in byte 1 2. Set the command in byte 2 3. Set the tare value in parameter 1 (byte 3, 4, 5, 6) <table border="1"> <thead> <tr> <th>Byte</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>01 Hex</td> </tr> <tr> <td>2</td> <td>03 Hex</td> </tr> <tr> <td>3(MSB)</td> <td>00 Hex</td> </tr> <tr> <td>4</td> <td>00 Hex</td> </tr> <tr> <td>5</td> <td>03 Hex</td> </tr> <tr> <td>6(LSB)</td> <td>E8 Hex</td> </tr> </tbody> </table> <p>EXAMPLE 2 For setting the setpoint n. 1 of the scale n. 2 to 1000 kg:</p> <ol style="list-style-type: none"> 1. Set the transmitter address in byte 1 2. Set the command in byte 2 3. Set the setpoint value in parameter 1 (byte 3, 4, 5, 6) 	Byte	Value	1	01 Hex	2	03 Hex	3(MSB)	00 Hex	4	00 Hex	5	03 Hex
Value	Command																																										
00 Hex	No command																																										
01 Hex	Scale zeroing																																										
02 Hex	Tare																																										
03 Hex	Preset Tare																																										
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2	03 Hex																																										
3(MSB)	00 Hex																																										
4	00 Hex																																										
5	03 Hex																																										
6(LSB)	E8 Hex																																										
Parameter 1	3(MSB)	First parameter of the command. Parameter is always expressed in absolute mode (no decimals, no sign).	<table border="1"> <thead> <tr> <th>Byte</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>02 Hex</td> </tr> <tr> <td>2</td> <td>0A Hex</td> </tr> <tr> <td>3(MSB)</td> <td>00 Hex</td> </tr> <tr> <td>4</td> <td>00 Hex</td> </tr> <tr> <td>5</td> <td>03 Hex</td> </tr> <tr> <td>6(LSB)</td> <td>E8 Hex</td> </tr> </tbody> </table>	Byte	Value	1	02 Hex	2	0A Hex	3(MSB)	00 Hex	4	00 Hex	5	03 Hex	6(LSB)	E8 Hex																										
	Byte			Value																																							
	1			02 Hex																																							
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3(MSB)	00 Hex																																										
4	00 Hex																																										
5	03 Hex																																										
6(LSB)	E8 Hex																																										
4																																											
5																																											
6(LSB)																																											
Parameter 2	7(MSB)	Second parameter of the command. Parameter is always expressed in absolute mode (no decimals, no sign).																																									
	8																																										
	9																																										
	10(LSB)																																										
-	11	-	-																																								
	...																																										
	32																																										

Calibration Procedure

DESCRIPTION	EXAMPLE																														
1. Send command 23 Hex to the transmitter to adjust calibration (transmitter ID has to be specified in byte 1)	<table border="1"> <thead> <tr> <th>Byte</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>03 Hex</td> <td>Transmitter n. 3</td> </tr> <tr> <td>2</td> <td>23 Hex</td> <td>Command</td> </tr> </tbody> </table>	Byte	Value	Description	1	03 Hex	Transmitter n. 3	2	23 Hex	Command																					
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2. Select page 5001 for calibration using the CHANGE PAGE command (1D Hex)	<table border="1"> <thead> <tr> <th>Byte</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>03 Hex</td> <td>Transmitter n. 3</td> </tr> <tr> <td>2</td> <td>1D Hex</td> <td>Change page</td> </tr> <tr> <td>3(MSB)</td> <td>00 Hex</td> <td rowspan="4">5001 (1389 Hex)</td> </tr> <tr> <td>4</td> <td>00 Hex</td> </tr> <tr> <td>5</td> <td>13 Hex</td> </tr> <tr> <td>6(LSB)</td> <td>89 Hex</td> </tr> </tbody> </table>	Byte	Value	Description	1	03 Hex	Transmitter n. 3	2	1D Hex	Change page	3(MSB)	00 Hex	5001 (1389 Hex)	4	00 Hex	5	13 Hex	6(LSB)	89 Hex												
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3. Set the span adjustment weight on page 5001, from byte 19 to 22 (if different from the one used during the last calibration)	<table border="1"> <thead> <tr> <th colspan="5">Weight value examples</th> </tr> <tr> <th></th> <th>1000</th> <th>6000</th> <th>15000</th> <th>350000</th> </tr> </thead> <tbody> <tr> <td>19(MSB)</td> <td>00 Hex</td> <td>00 Hex</td> <td>00 Hex</td> <td>00 Hex</td> </tr> <tr> <td>20</td> <td>00 Hex</td> <td>00 Hex</td> <td>00 Hex</td> <td>05 Hex</td> </tr> <tr> <td>21</td> <td>03 Hex</td> <td>17 Hex</td> <td>3A Hex</td> <td>57 Hex</td> </tr> <tr> <td>22(LSB)</td> <td>E8 Hex</td> <td>70 Hex</td> <td>98 Hex</td> <td>30 Hex</td> </tr> </tbody> </table>	Weight value examples						1000	6000	15000	350000	19(MSB)	00 Hex	00 Hex	00 Hex	00 Hex	20	00 Hex	00 Hex	00 Hex	05 Hex	21	03 Hex	17 Hex	3A Hex	57 Hex	22(LSB)	E8 Hex	70 Hex	98 Hex	30 Hex
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4. Send "WRITE CALIBRATION" command (24 Hex), with: parameter 1 = 5001 (1389 Hex).	See example of point 2, but byte 2=24 Hex (Write Calibration).																														
5. Zero capture: unload the scale and write the "ACQUISITION POINT" command (25 Hex), with parameter 1 = 0.	<table border="1"> <thead> <tr> <th>Byte</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>03 Hex</td> <td>Transmitter n. 3</td> </tr> <tr> <td>2</td> <td>25 Hex</td> <td>Acquisition point</td> </tr> <tr> <td>3(MSB)</td> <td>00 Hex</td> <td rowspan="4">Zero point acquisition</td> </tr> <tr> <td>4/5</td> <td>00 Hex</td> </tr> <tr> <td>6(LSB)</td> <td>00 Hex</td> </tr> </tbody> </table>	Byte	Value	Description	1	03 Hex	Transmitter n. 3	2	25 Hex	Acquisition point	3(MSB)	00 Hex	Zero point acquisition	4/5	00 Hex	6(LSB)	00 Hex														
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6. Read the calibration status into page 5001 (byte 30, 31) If acquisition is OK, then proceed with step 7; otherwise check the load cell mV/V (must be stable) and repeat step 5.	<table border="1"> <thead> <tr> <th>30(MSB)</th> <th>31(LSB)</th> <th></th> </tr> </thead> <tbody> <tr> <td>00 Hex</td> <td>00 Hex</td> <td>Calibration not started</td> </tr> <tr> <td>00 Hex</td> <td>01 Hex</td> <td>Acquisition underway</td> </tr> <tr> <td>00 Hex</td> <td>02 Hex</td> <td>Acquisition OK</td> </tr> <tr> <td>00 Hex</td> <td>03 Hex</td> <td>Acquisition error</td> </tr> <tr> <td>00 Hex</td> <td>04 Hex</td> <td>Calibration OK</td> </tr> <tr> <td>00 Hex</td> <td>05 Hex</td> <td>Calibration error</td> </tr> </tbody> </table>		30(MSB)	31(LSB)		00 Hex	00 Hex	Calibration not started	00 Hex	01 Hex	Acquisition underway	00 Hex	02 Hex	Acquisition OK	00 Hex	03 Hex	Acquisition error	00 Hex	04 Hex	Calibration OK	00 Hex	05 Hex	Calibration error								
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7. Span capture: load the scale with span weight and write the "ACQUISITION POINT" command (25 Hex), with parameter 1 = "1". If acquisition is OK, proceed to step 8; if not check the load cell mV/V (must be stable and greater then zero point) and repeat step 7.	<table border="1"> <thead> <tr> <th>Byte</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>03 Hex</td> <td>Transmitter n. 3</td> </tr> <tr> <td>2</td> <td>25 Hex</td> <td>Acquisition point</td> </tr> <tr> <td>3(MSB)</td> <td>00 Hex</td> <td rowspan="4">Span acquisition</td> </tr> <tr> <td>4/5</td> <td>00 Hex</td> </tr> <tr> <td>6(LSB)</td> <td>01 Hex</td> </tr> </tbody> </table>	Byte	Value	Description	1	03 Hex	Transmitter n. 3	2	25 Hex	Acquisition point	3(MSB)	00 Hex	Span acquisition	4/5	00 Hex	6(LSB)	01 Hex														
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8. Store calibration using the "WRITE CALIBRATION" command (24 Hex), with parameter 1 = 0	<table border="1"> <thead> <tr> <th>Byte</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>03 Hex</td> <td>Transmitter n. 3</td> </tr> <tr> <td>2</td> <td>24 Hex</td> <td>Write calibration</td> </tr> <tr> <td>3(MSB)</td> <td>00 Hex</td> <td rowspan="4">Store calibration</td> </tr> <tr> <td>4/5</td> <td>00 Hex</td> </tr> <tr> <td>6(LSB)</td> <td>00 Hex</td> </tr> </tbody> </table>		Byte	Value	Description	1	03 Hex	Transmitter n. 3	2	24 Hex	Write calibration	3(MSB)	00 Hex	Store calibration	4/5	00 Hex	6(LSB)	00 Hex													
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Messages

Message	Description
FbUS. Er	No connection received from module Hub after 30 seconds
F. r. HH. YY	Firmware version of the module hub
F_b_Conn	Start the Communication between hub module and scale
F_b_oH	Communication on fieldbus network configured and running
b_b_Err +code	Error state, see table error codes
F_bUS. in	Fieldbus initialization

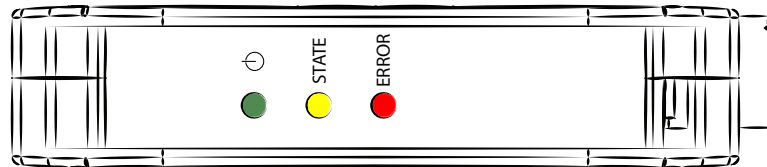
Hub Module Error Codes





Code	Description
1000	Fatal error in hub module
1001	Inconsistency between protocol type selected and the one managed by the Hub module, e.g. Hub type DeviceNet module with Profinet protocol selected on SCT
1-18	Other fatal error in Hub module
000001 and the following	Unrecoverable error module Hub

Network Error Codes

Code	Description
000140	General network error
000141	Connection closed
000142	Time-out connection
000143	Isolated network
000144	Duplicated node
000145	Network cable disconnected

Annunciators



Annunciator	Descriptions
 	Blinking green – initializing fieldbus module Solid green – fieldbus module is ready
 STATE	Indicates the RS-485 communication state between fieldbus module and weight transmitter: Solid yellow – initializing communication Rapid blinking yellow – fieldbus module is communicating correctly Slow blinking yellow – fieldbus module is attempting to communicate with the weight transmitter (no communication)
 ERROR	Off – communication is OK Solid or blinking red – no communication with the fieldbus master; check the cable connection, protocol and the PLC configuration



Note All LED annunciators turn on during the fieldbus module start-up to verify correct functioning.



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