

GSE 351

Checkweigher



Technical Reference Manual 1.1



Contents

CHAPTER 1: Introduction	1
CONVENTIONS AND SYMBOLS	1
DISPLAY	2
<i>LED Display</i>	2
<i>Annunciators</i>	2
KEYPAD	3
WEIGH MODE FUNCTIONS	3
SECONDARY FUNCTIONS	4
SPECIFICATIONS.....	5
Performance.....	5
Electrical.....	5
Operation.....	5
Communication.....	5
display.....	5
Enclosure	5
Options.....	5
Platform	5
CHAPTER 2: Installation	7
BENCHTOP MOUNTING	7
WIRING.....	9
<i>Power Connection</i>	9
<i>DC Power Connection</i>	9
<i>Serial Port Connection</i>	9
<i>Remote Key Connection</i>	11
<i>Load cell connection</i>	12
CHAPTER 3: Getting Started	13
DEFAULT SETUP	13
OPERATION.....	13
<i>Entering a Target Value</i>	14
<i>Entering Tolerances</i>	17
<i>Status Indication</i>	18
<i>Counting</i>	18
<i>Printing out a Ticket</i>	19
CHAPTER 4: Configuration	21
SETUP MODE	21
<i>Selection Parameters</i>	23
<i>Key-In Parameters</i>	24
PARAMETER MAP	25
PARAMETER MAP DETAILS.....	27
CUSTOM TRANSMIT SETUP	37
<i>Elements Of A Custom Transmit</i>	37
Parameters.....	38

ACSCII Text.....	38
Control Codes	38
<i>Writing A Custom Transmit ASCII Text File</i>	38
<i>Accessing Setup and Clearing Existing Custom Transmit</i>	39
<i>Entering ASCII Text</i>	39
<i>Entering ASCII Control Codes</i>	39
<i>Parameter Selection Numbers</i>	41
<i>Exiting Setup Mode And Saving Changes</i>	43
TIME/DATE OPERATION	43
REMOTE KEY OPERATION	45
REMOTE SERIAL OPERATION	46
<i>Display Capture Utility</i>	46
Example #1	47
Example #2	47
TARGET AND TOLERANCE SETUP	47
RS-485 MULTI-DROP NETWORK SETUP AND OPERATION	48
<i>Setup</i>	48
<i>Operation</i>	49
<i>Network Protocol</i>	49
CHAPTER 5: Calibration.....	51
SETUP MODE CALIBRATION	51
FAST CALIBRATION	51
PERFORMING CALIBRATION	52
<i>Select and Calibration Method and Establish Zero</i>	52
First Zero?.....	52
Last Zero	53
False Zero	54
Only Zero	55
Reset Calibration.....	56
<i>Establishing A Span</i>	58
<i>Exiting Calibration</i>	58
CHAPTER 6: Legal For Trade.....	61
NTEP REQUIREMENTS	61
OIML REQUIREMENTS	62
OTHER REQUIREMENTS	62
SEALING AND AUDIT TRAILS	62
<i>Physical Seal</i>	63
<i>Audit Trails</i>	64
<i>OIML Audit Trail</i>	64
Calibration Audit Trail.....	65
Setup Audit Trail.....	65
Viewing Audit Trail Parameters.....	65
CHAPTER 7: Model 351 Options	67
RS- 485 NETWORKING	67
<i>Network Connections</i>	68

Half-Duplex (2-wire)	69
Full Duplex (4-wire)	69
Both Half Duplex and Full Duplex	69
20 MA CURRENT LOOP OPERATION	72
<i>Installation</i>	72
<i>Bi-Directional</i>	72
<i>Baud</i>	72
<i>Active/Passive</i>	72
<i>Isolation</i>	73
<i>Max Voltage</i>	73
<i>Connections</i>	73
<i>Cable</i>	73
<i>Connected Devices</i>	74
CHAPTER 8: Troubleshooting	75
ERROR MESSAGES	75
<i>Operational Errors</i>	75
<i>Setup Mode Errors</i>	76
<i>Hardware Errors</i>	77
<i>Calibration Errors</i>	77
<i>Communication Errors</i>	78
<i>Miscellaneous Errors</i>	78
VIEWING SETUP	78
INFORMATION MODE PARAMETERS	79
A/D CALIBRATION PROCEDURE	81

This is a “Table of Contents preview” for quality assurance

The full manual can be purchased from our store:

[https://the-checkout-tech.com/manuals/GSE/351 technical reference manual.html](https://the-checkout-tech.com/manuals/GSE/351%20technical%20reference%20manual.html)

And our free Online Keysheet maker:

<https://the-checkout-tech.com/Cash-Register-Keysheet-Creator/>

[HTTPS://THE-CHECKOUT-TECH.COM](https://THE-CHECKOUT-TECH.COM)