



350 Series

Digital Weight Indicator

Model: FB350



Table of Contents

CHAPTER 1: INTRODUCTION.....	1
STANDARD FEATURES.....	1
SPECIFICATIONS.....	1
DISPLAY.....	3
LED Display	3
LCD Display	3
Annunciators.....	3
FB350 KEYPAD.....	4
Secondary Functions.....	4
WEIGH MODE FUNCTIONS	5
ENTERING A TARE VALUE	5
CHAPTER 2: INDICATOR INSTALLATION.....	7
MOUNTING.....	7
Desktop Mounting	7
Panel Mounting.....	7
Permanent Mounting.....	8
Outline Drawings	8
WIRING.....	10
Load Cell Connections.....	10
Serial Port Connections.....	10
Remote Key Connection.....	11
Remote Display Connections.....	11
Power Connection.....	12
CHAPTER 3: OPTION INSTALLATION	14
PERIPHERAL OPTIONS	14
SWIVEL BRACKET	14
PANEL MOUNT KIT	15
ANALOG CARD CONNECTIONS.....	16
Analog Board Diagnostic and Test Procedures	20
ANALOG OUTPUT SETUP.....	22
ANALOG OUTPUT CALIBRATION.....	23
Entering Analog Calibration Values.....	23
Analog Output Example	24
SETPOINT CARD CONNECTIONS	25
Setpoint Board Diagnostic and Test Procedures.....	29
RS-485 NETWORKING	30
Network Connections.....	31
20 MA CURRENT LOOP OPTION	33
Bi-directional	33
Baud	33

Active/Passive.....	33
Isolation.....	33
Max Voltage.....	33
Connections.....	34
Cable	34
Connected Devices.....	34
BATTERY POWER SUPPLY	34
Mounting.....	35
Pin Designations	36
ON/OFF Switch	37
Battery Charging.....	37
Temperature Sensing	38
Low Battery Indication	38
Dead Battery Shutdown	38
Automatic Shutdown	38
FIBER-OPTIC INTERFACE.....	39
CHAPTER 4: CONFIGURATION.....	40
ENTERING THE SETUP MODE	40
SELECTING A PARAMETER	41
CHANGING A PARAMETER VALUE	42
Selection Parameters.....	42
KEY-IN PARAMETERS	42
SAVING PARAMETERS	43
FACTORY DEFAULT	44
LIST OF PARAMETERS	44
Parameter Map Details.....	47
PRESET TRANSMIT SELECTIONS.....	53
CUSTOM TRANSMIT	56
Elements of a Custom Transmit.....	56
Writing a custom transmit ASCII text file.....	56
Accessing Setup and Clearing Existing Custom Transmit	57
Entering ASCII Text.....	57
Entering ASCII Control Codes	58
Parameter Selection Numbers.....	59
Exiting Setup Mode and Saving Changes.....	60
PARTS COUNTING	60
ANALOG OUTPUT SETUP.....	62
ANALOG OUTPUT CALIBRATION.....	62
Entering Analog Calibration Values.....	63
Analog Output Example	64
SETPOINT SETUP	65
Activation Methods (General)	65
Pre-acts (General)	66
Learn Feature (General).....	66
Pause Feature (General).....	66
Changing Targets from the Weigh Mode (General).....	67

Example (General)	67
Bargraph (General)	68
PERCENTAGE CHECK-WEIGHING	70
Setpoint Activation (Percentage Check-Weighing).....	70
Changing Targets from the Weigh Mode (Percentage Check-Weighing).....	70
Example (Percentage Check-Weighing).....	71
FILL	71
Activation Method (Fill).....	72
Pre-acts (Fill)	72
Learn Feature (Fill).....	72
Pause Feature (Fill).....	72
Changing Targets from the Weigh Mode (Fill)	72
Example (Fill).....	73
BATCH	73
Activation Method (Batch)	73
Pre-acts (Batch).....	74
Learn Feature (Batch)	74
Pause Feature (Batch)	74
Changing Targets from the Weigh Mode (Batch)	74
Example (Batch)	74
DISCHARGE.....	75
Activation Method (Discharge)	75
Pre-acts (Discharge).....	76
Learn Feature (Discharge)	76
Pause Feature (Discharge)	76
Example (Discharge)	76
BOTH	77
Activation Method (Both).....	77
Pre-acts (Both)	77
Learn Feature (Both).....	77
Pause Feature (Both).....	78
Target Changes from the Weigh Mode (Both)	78
Example (Both).....	78
ABSOLUTE CHECK-WEIGHING	78
Setpoint Activation (Absolute Check-Weighing).....	79
Changing Targets from the Weigh Mode (Absolute Check-Weighing).....	79
Example (Absolute Check-Weighing).....	80
INDEPENDENT SETPOINT OPERATION.....	80
Setpoint Activation (Independent).....	81
Changing Targets from the Weigh Mode (Independent).....	81
Example (Independent).....	82
TARGET DEVIATION CHECK-WEIGHING	82
Setpoint Activation (Target Deviation Check-Weighing)	83
Changing Targets from the Weigh Mode (Target Deviation Check-Weighing)	83
Example (Target Deviation Check-Weighing).....	84
BARGRAPH SETUP (LCD)	84

REMOTE KEY OPERATION	86
REMOTE SERIAL OPERATION	87
Display Capture Utility	87
TIME AND DATE SETUP	88
RS-485 MULTI-DROP NETWORK SETUP AND OPERATION	90
Setup	90
Operation.....	90
Network Protocol	91
UPGRADE INDICATOR FIRMWARE	91
Prepare for upgrade.....	91
Load Flash File	92
REMOTE DISPLAY CONFIGURATION.....	92
Master to Remote (Slave) Configuration.....	92
Setup Master Indicator.....	92
Setup Remote Indicator.....	93
COMMAND CODES	96
ID NUMBER ENTRY.....	97
CHAPTER 5: CALIBRATION.....	98
SETUP MODE CALIBRATION.....	98
FAST CALIBRATION.....	98
PERFORMING CALIBRATION.....	98
ESTABLISHING ZERO.....	98
First Zero.....	99
Last Zero.....	100
False Zero.....	101
Only Zero.....	102
Reset Calibration.....	102
MULTI-POINT LINEARIZATION.....	104
Examining Calibration Results	105
ESTABLISHING A SPAN	105
EXITING CALIBRATION	106
CHAPTER 6: LEGAL FOR TRADE.....	108
NTEP REQUIREMENTS.....	108
NTEP PANEL MOUNT REQUIREMENTS	108
OMIL REQUIREMENTS.....	109
OTHER REQUIREMENTS.....	109
SEALING AND AUDIT TRAILS.....	110
Physical Seal	110
Audit Trails	111
CHAPTER 7: TROUBLESHOOTING	113
ERROR MESSAGES	113
Operational Errors.....	113
Setup Mode Errors	113
Hardware Errors.....	114

Calibration Errors.....	114
Communication Errors.....	115
Miscellaneous Errors	115
VIEWING SETUP	115
INFORMATION MODE PARAMETERS	115
A/D CALIBRATION PROCEDURE.....	118
CHAPTER 8: PARTS LIST	119
APPENDIX 1: PRINTERS	122
APPENDIX 2: PRINTER QUICK REFERENCE	132
APPENDIX 3: 4-20MA CONNECTIONS.....	133

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/Fairbanks/FB-350 service manual.html](https://the-checkout-tech.com/manuals/Fairbanks/FB-350%20service%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)