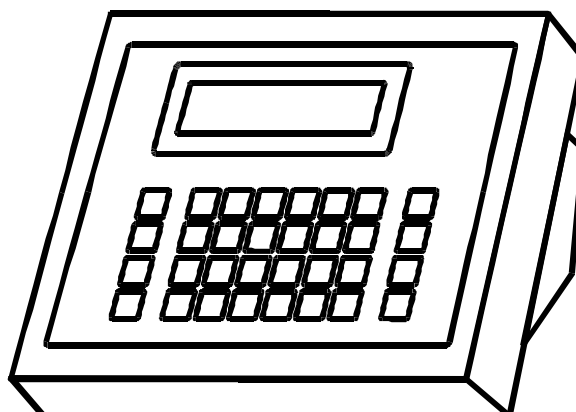


Technical Manual

IT8000



Freely Programmable Weighing Terminal

May 2004

ST.2309.0426

Rev. 5

Contents

1 Introduction	1
1.1 General	1
1.2 Safety Advice	1
1.3 Declaration Of Conformity	2
2 System Description	3
2.1 Construction.....	3
2.2 Description Of Components.....	4
2.2.1 Main Board (CPU8000).....	4
2.2.2 Scale Interface (ADC).....	5
2.2.3 Interface For Digital Force Transducers With IDNet Protocol (IDN)	6
2.2.4 Interface For Digital Force Transducers with RS485 Interface (DWM)	6
2.2.5 Fieldbus Module (FBM)	7
2.2.6 Profibus DP Module (PCM)	8
2.2.7 Ethernet Controller Module (ECM)	8
2.2.8 RS232 Interface Module (SIM RS232).....	9
2.2.9 20mA Interface Module (SIM 20mA).....	9
2.2.10 RS485 Interface Module (SIM RS485.2 And SIM RS485.4)	9
2.2.11 Parallel Interface Module(PIM)	9
2.2.12 Analog Output Module (DAU)	9
2.2.13 Keyboard	9
2.2.14 MFII Keyboard Adapter.....	10
2.2.15 MFII keyboard - key assignment	10
2.2.16 Display	11
2.2.17 Power Supply 110 – 240 VAC.....	11
2.2.18 Power Supply 12 - 30 VDC.....	12
3 Installation	13
3.1 Safety Advice	13
3.2 Setup Of The Instrument.....	13
3.3 Opening Of The Housing	13
3.4 Connection Of Cables	13
3.5 Connection Of Scales	14
3.5.1 Connection Of Analog Scale To ADC	14
3.5.2 Connection Cables For Analog Weighing Platforms	15
3.5.3 Sealing Of Calibration Parameters	15
3.5.4 Interface For Digital Force Transducers With IDNet Protocol (IDN)	16
3.5.5 Interface For Digital Force Transducers with RS485 Interface (DWM)	17
3.5.6 Connection Cables For Digital Force Transducers.....	19
3.6 Serial Interface Connections	20
3.7 Connection Of Parallel I/Os.....	24
3.8 Connection Of Fieldbus Module.....	26
3.9 Connection Of Profibus DP Module.....	27
3.10 Connection Of Ethernet Module	28
3.11 Connection Of Analog Output	29
3.12 Connection To Power Supply	31

3.12.1 Power Supply Unit 110 – 240 VAC.....	31
3.12.2 Power Supply Unit 12 - 30 VDC.....	31
4 Service Mode	32
4.1 General.....	32
4.2 Display And Keyboard	33
4.3 Operator Prompting.....	34
4.4 Overview	35
4.5 Interface Configuration	36
4.6 Header Ident Data.....	41
4.7 Detail Ident Data.....	42
4.8 Application Setup	43
4.8.1 Fieldbus Interface	44
4.9 RAM Data Backup.....	46
4.10 Hardware Test.....	47
4.10.1 Serial Input/Output Test	47
4.10.2 Parallel Input/Output Test	48
4.10.3 Memory Test	49
4.10.4 Display Test	49
4.10.5 Keyboard Test	49
4.10.6 Delete Memory	50
4.10.7 Terminate Program	51
4.10.8 Assignment Of Devices	52
4.11 S5 Data Block	53
5 Transport, Maintenance And Cleaning.....	54
5.1 Transport.....	54
5.2 Maintenance	54
5.3 Cleaning	54
6 Trouble Shooting.....	55
7 Technical Data.....	56
8 Annex.....	57
8.1 ACK/NAK-Protocol.....	57
8.2 Changing Of EPROMs.....	58
8.3 Replacing The Battery	60
8.4 Combination Of Options	61
9 Service Password.....	63

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

The full manual can be found at <http://the-checkout-tech.com/estore/catalog/>

We also offer free downloads, a free keyboard layout designer, cable diagrams, free help and support.

<http://the-checkout-tech.com> : *the biggest supplier of cash register and scale manuals on the net*