

Table of Contents

Preface.....	7
Introduction.....	9
1. Scope.....	11
2. References.....	12
2.1 HART Field Communications Protocol Specifications.....	12
2.2 Related HART Documents	12
2.3 Related Documents	12
3. Definitions	14
4. Symbols/Abbreviations.....	16
5. Data Format	17
6. Overview.....	18
6.1 TDMA Basics	18
6.2 Mesh Networking	21
6.3 Network Maintenance.....	22
6.4 Time Keeping.....	22
7. Data-Link Layer Services	23
7.1 Message SPs	23
7.2 Management SPs.....	27
8. Logical Link Control	31
8.1 The DLPDU	31
8.2 DLPDU Types	36
8.3 DLPDU Priority and Flow Control.....	40
8.4 Error Detection Coding and Security.....	41
9. Medium Access Control	43
9.1 Slot Timing	43
9.2 Communication Tables and Buffers	46
9.3 Link Scheduling.....	53
9.4 MAC Operation	58
10. Physical Layer-Specific Requirements.....	67
10.1 IEEE STD 802.15.4-2006 (2450 MHz) Physical Layer	67
Annex A. Revision History	68

A.1. Changes from revision 1.0 to revision 1.168
A.2. Revision 1.068