

Table of Contents

Preface.....	7
Introduction.....	9
1. Scope	11
2. References.....	11
2.1 HART Field Communications Protocol Specifications.....	11
2.2 Related HART Documents	11
3. Definitions	11
4. Symbols/Abbreviations.....	12
5. Response Codes	12
5.1 Response Code Classifications	12
5.2 Command Not Implemented.....	15
5.3 Busy	15
5.4 Command Requirements.....	15
5.5 Choosing Response Codes for New Commands	16
6. Response Code Definitions.....	17
6.1 RC #0 Success.....	17
6.2 RC #1 (Single Definition Error)	17
6.3 RC #2 (Single Definition Error)	18
6.4 RC #3 (Single Definition Error)	18
6.5 RC #4 (Single Definition Error)	18
6.6 RC #5 (Single Definition Error)	19
6.7 RC #6 (Single Definition Error)	19
6.8 RC #7 (Single Definition Error)	20
6.9 RC #8 (Multi-Definition Warning).....	20
6.10 RC #9 (Multi-Definition Error)	21
6.11 RC #10 (Multi-Definition Error)	22
6.12 RC #11 (Multi-Definition Error)	23
6.13 RC #12 (Multi-Definition Error)	24
6.14 RC #13 (Multi-Definition Error)	25
6.15 RC #14 (Multi-Definition Warning).....	26
6.16 RC #15 (Multi-Definition Error)	26

6.17 RC #16 (Single Definition Error)	27
6.18 RC #17 (Single Definition Error)	27
6.19 RC #18 (Single Definition Error)	27
6.20 RC #19 (Single Definition Error)	28
6.21 RC #20 (Single Definition Error)	28
6.22 RC #21 (Single Definition Error)	29
6.23 RC #22 (Single Definition Error)	29
6.24 RC #23 (Single Definition Error)	29
6.25 RC #24-#27 (Single Definition Warning)	30
6.26 RC #28 (Multi-Definition Error)	30
6.27 RC #29 (Multi-Definition Error)	30
6.28 RC #30(Multi-Definition Warning).....	31
6.29 RC #31(Multi-Definition Warning).....	31
6.30 RC #32 (Single Definition Error)	32
6.31 RC #33 (Single Definition Error)	32
6.32 RC #34 (Single Definition Error)	33
6.33 RC #35 (Single Definition Error)	33
6.34 RC #36 (Single Definition Error)	33
6.35 RC #37-#59 (Single Definition Error)	34
6.36 RC #60 (Single Definition Error)	34
6.37 RC #61 (Single Definition Error)	34
6.38 RC #62 (Single Definition Error)	35
6.39 RC #63 (Single Definition Error)	35
6.40 RC #64 (Single Definition Error)	35
6.41 RC #65 (Multi-Definition Error)	36
6.42 RC #66 (Multi-Definition Error)	37
6.43 RC #67 (Multi-Definition Error)	38
6.44 RC #68 (Multi-Definition Error)	38
6.45 RC #69 (Multi-Definition Error)	39
6.46 RC #70 (Multi-Definition Error)	39
6.47 RC #71 (Multi-Definition Error)	39
6.48 RC #72-#95 (Multi-Definition Error).....	40
6.49 RC #96-#111 (Single-Definition Warning)	40
6.50 RC #112-#127 (Multi-Definition Warning)	40

7. Delayed Slave Responses	41
7.1 Normal DR Operation.....	42
7.2 Use of DR_CONFLICT Response Code	43
7.3 Multiple DR Buffers	44
7.4 Bridge Device Use of DRM.....	45
Annex A. Revision History.....	46
A1. Changes From 5.0 to 6.0.....	46
A2. Changes From 4.1 - Final to 5.0	46
A3. Changes From 4.0 - Final to 4.1	46
A4. Changes From 3.0 - Final to 4.0A - Preliminary	48
A5. Major Modifications Rev 2 to Rev 3.0 - Final.....	49
A6. Major Modifications from Rev 1 to Rev 2	49
A7. Major Modifications Incorporated into Rev 1	49