DIN EN 14908-2:2014-08 (E)

Open Data Communication in Building Automation, Controls and Bui lding Management - Control Network Protocol - Part 2: Twisted Pair Communication; English version EN 14908-2:2014

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Network overview 5

4 System specifications 5
4.1 General aspects 5
4.2 Cable 5
4.3 Topology 5
4.3.1 Free or bus topology 5
4.3.2 Repeater 6
4.4 Cable termination 6
4.4.1 Free-topology segment 6
4.4.2 Bus topology segment 6
4.5 Segment configuration 6
4.6 Power specifications 7

5 Link power 7
5.1 General 7
5.2 Source 7
5.3 Power supply requirements 8
5.4 Passive coupler circuit 11

6 Node specifications 12
6.1 Link power 12
6.2 Hot plugging 12
6.3 Transmitter/receiver interface to the MAC sub-layer 13
6.3.1 Physical layer protocol data unit 13
6.3.2 Frame format 13
6.3.3 Transmit waveform 14
6.4 Impedance 16

7 Communication parameters 17

Annex A (informative) Environmental specifications 19

Bibliography 20