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1, CML Electronics Limited

2, Train Technology

11, NCE Corporation (formerly North Coast Engineering)

12, Wangrow Electronics

13, Public Domain & Do-It-Yourself Decoders

14, PSI - Dynatrol

15, Ramfixx Technologies (Wangrow)

17, Advanced IC Engineering, Inc.

19, AMW

20, T4T - Technology for Trains GmbH

21, Kreischer Datentechnik

22, RAM Industries

23, S Helper Service

24, MoorTron.de

25, Team Digital, LLC

26, MBTronik - Pin GITmBH

27, MTH Electric Trains, Inc.

28, Heljan A/S

29, Mistral Train Models
30, Toydigit
31, Brelec
32, Regal Way Co. Ltd
33, Praecipus
34, Aristo-Craft Trains
35, Elektronik & Model Produktion
36, DCCconcepts
37, NAC Services, Inc.
62, Tams Elektronik GmbH
66, Railnet Solutions, LLC
68, MAWE Elektronik
71, New York Byano Limited
73, The Electric Railroad Company
85, Uhlenbrock GmbH
87, RR-Cirkits
95, Sanda Kan Industrial, Ltd.
97, Doehler & Haas
99, Lenz Elektronic GmbH
101, Bachmann Trains
103, Nagasue System Design Office
105, Computer Dialysis France
109, Viessmann Modellspielwaren GmbH
111, Haber & Koenig Electronics GmbH (HKE)
113, QS Industries (QSI)
115, Dietz Modellbahntechnik
117, cT Elektronic
119, W. S. Ataras Engineering
123, Massoth Elektronik, GmbH
125, ProfiLok Modellbahntechnik GmbH
127, Atlas Model Railroad Products
129, Digitrax
131, Trix Modelleisenbahn
132, ZTC
133, Intelligent Command Control
135, CVP Products
139, RealRail Effects
141, Throttle-Up (Soundtraxx)
143, Model Rectifier Corp.
145, Zimo Elektronik
147, Umelec Ing. Buero
149, Rock Junction Controls
151, Electronic Solutions Ulm GmbH
153, Train Control Systems
155, Gebr. Fleischmann GmbH & Co.
157, Kuehn Ing.
159, LGB (Ernst Paul Lehmann Patentwerk)
161, Modelspielwaren GmbH (formerly Roco)
163, WP Railshops
165, Model Electronic Railway Group
170, AuroTrains
173, Arnold - Rivarossi
186, BRAWA Modellspielwaren GmbH & Co.
204, Con-Com GmbH
238, NMRA Reserved
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308, 17, 4, False
309, 18, 4, False
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311, 61, 4, False
312, 10, 1, True

1, 1, 0, QSI Decoder, 113, , 2006-10-06 00:00:00, NMRA DCC Reference Manual for QSI Quantum(R) HO Equipped Locomotives Ver 3.0, 16 Feb 2005, 1, 1, 113, 56, 10960, 127, 49, 50, 67, 94, 0
3, 2, 0, NMRA Extended, 22, , 1997-07-27 00:00:00, NMRA Extended Decoder from KAM's proposed NMRA Application programming manual, 1, 3, 33, 8, 10960, 127, 0, 0, 67, 94, 0
6, 3, 0, Silver Mini Silent-Back EMF DCC Decoder, 99, 2006-10-14
07:15:54.657000000, 2006-10-14 07:15:54.657000000, Lenz Silver Decoders have received an NMRA C&I warrant. Art no 10310.1 June 2006, 1, 65, 33, 8, 9999, 127, 0, 0, 67, 94, 0
7, 4, 0, NMRA Compatible, 22, 2006-10-31 09:33:19, 1997-08-24 09:33:19, NMRA Compatible Decoder, 1, 1, 0, 0, 127, 127, 0, 0, 0, 0
8, 5, 0, Gold Maxi Silent-Back EMF, 99, 2006-10-31 00:00:00, 2006-10-31 00:00:00, Lenz Gold decoders have received an NMRA, 1, 72, 33, 8, 10960, 127, 0, 0, 67, 94, 0
9, 6, 0, Gold Mini Silent -Back EMF Dcc Decoder, 99, 2006-10-31 00:00:00, 2006-10-31 00:00:00, Lenz Gold Mini Silent -Back EMF, 1, 60, 33, 8, 10960, 127, 0, 0, 67, 94, 0
10, 7, 0, eMotion XL, 123, 2006-12-06 00:00:00, 2006-12-06 00:00:00, Massoth Elektronik GmbH EMOTION XL Lokdecoder Nr. 8150001 v1.2, 1, 12, 55, 7, 10239, 127, 0, 0, 67, 94, 0
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10, 13, 25, 0, -1, 6, 1
11, 14, 25, 0, -1, 6, 1
12, 16, 25, 0, -1, 6, 1

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1, 1, mainLine,,, 0
2, 2, page,,, 0
3, 3, Direct,,, 0
4, 1, German mainline,,, 1
5, 2, German page,,, 1
6, 3, German Direct,,, 1
7, 4, Register, Register Mode programm for older decoders that do not conform to the
new programming standards,,, 0
9, 5, Bit Mode Programing,,, 0
10, 6, Byte Mode programming,,, 0
1, 25, 2, Convex Speed Table,, Reverts to user defined speed table (CV67 - 94)
2, 25, 4, Convex Speed Table,, Reverts to user defined speed table (CV 67-94)
3, 25, 6, Convex Speed table,, Linear Curve
4, 25, 7, Convex Speed Table,, Fast Start 1 (close to linear)
5, 25, 8, Convex Speed Table,, Fast Start 2
6, 25, 9, Convex Speed Table,, Fast Start 3
7, 25, 10, Convex Speed Table,, Fast Start 4
8, 25, 11, Convex Speed Table,, Fast Start 5 (greatest curvature)
9, 25, 12, Concave Slow Start Curve,, Reverts to Linear Curve
10, 25, 13, Concave Slow Start Curve,, Reverts to Linear Curve
11, 25, 14, Concave Slow Start Curve,, Slow Start 1 (close to linear)
43,34,61,Steam Engine Blower Hiss or Diesel,,Blower-Hiss/Fans will turn on by FL(r) and you will "take control" of Blower-Hiss/Fans.

44,34,62,Dynamic Brakes,,Dynamic Brakes will turn on by FL(r)

45,34,63,Dynamics brakes,,,Dynamics brakes will turn on by FL(r)

46,34,64,Doppler, Start Up,,"0-1" or "1-0" If FL(r) is changed, Doppler shift will occur in a moving Engine

47,34,65,Doppler, Start Up,,"0-1-0" or "1-0-1" If FL(r) is double pressed, Quantum will clear all "Take Control"

48,35,66,Directional Lighting,,Directional lighting turn off by FL

49,35,67,Directional Lighting,,Directional Lighting turn on by FL

50,35,68,Directional Reverse Light,,Directional lighting turn off by FL

51,35,69,Directional Reverse Light,,Directional Lighting turn on by FL

52,35,70,Bell,,Bell turn off by F1

53,35,71,Bell,,Bell turn on by F1

54,35,72,Whistle/Horn,,The Whistle/Horn turn off by F1

55,35,73,Whistle/Horn,,Whistle/Horn turn on by F1

56,35,74,Couple Crash, Couple Arm, Couple Fire,,"0-1" If FL changed when engine is moving, couple crash sounds are produced.

57,35,75,Couple Crash, Couple Arm, Coupler Fire,,"1-0" If FL changed when engine is in Neutral, Coupler Arm or couple Fire occurs

58,35,76,Steam Engine Blower Hiss or Diesel,,Blower-Hiss/Fans will turn off F1 and you will "take control" of Blower-Hiss/Fans.

59,35,77,Steam Engine Blower Hiss or Diesel,,Blower-Hiss/Fans will turn on F1 and you will "take control" of Blower-Hiss/Fans.

60,35,78,Dynamics brakes,,Dynamic Brakes will turn off by F1

61,35,79,Dynamics brakes,,Dynamic Brakes will turn on by F1

62,35,80,Doppler, Start Up,,"0-1" or "1-0" If F1 is changed, Doppler shift will occur in a moving Engine.

63,35,81,Doppler Start Up,,"0-1-0" or "1-0-1" If F1 is double pressed, Quantum will clear all "Take Control"

64,36,82,Directional Lighting,,Directional lighting turn off by F2

65,36,83,Directional Lighting,,Directional Lighting turn on by F2

66,36,84,Directional Reverse Light,,Directional lighting turn off by F2

67,36,85,Directional Reverse Light,,Directional Lighting turn on by F2

68,36,86,Bell,,Bell turn off by F2

69,36,87,Bell,,Bell turn on by F2

70,36,88,Whistle/Horn,,The Whistle/Horn turn off by F2

71,36,89,Whistle/Horn,,Whistle/Horn turn on by F2

72,36,90,Couple Crash, Couple Arm, Couple Fire,,"0-1" If F2 changed when engine is moving, couple crash sounds are produced.

73,36,91,Couple Crash, Couple Arm, Coupler Fire,,"1-0" If F2 changed when engine is in Neutral, Coupler Arm or couple Fire occurs

74,36,92,Steam Engine Blower Hiss or Diesel,,Blower-Hiss/Fans will turn off F2
and you will "take control" of Blower-Hiss/Fans. If F2 is changed, Doppler shift will occur in a moving Engine.

Dynamic Brakes: Dynamic Brakes will turn off by F2

Dynamics brakes: Dynamics brakes will turn on by F2

Doppler: Start Up, "0-1" or "1-0" If F2 is changed, Doppler shift will occur in a moving Engine.

Doppler Start Up: "0-1-0" or "1-0-1" If F2 is double pressed, Quantum will clear all "Take Control".

Directional Lighting: Directional lighting turn off by FL(f)

Directional Lighting: Directional Lighting turn on by FL(f)

Directional Reverse Light: Directional lighting turn off by FL(f)

Directional Reverse Light: Directional Lighting turn on by FL(f)

Bell: Bell turn off by FL(f)

Bell: Bell turn on by FL(f)

Whistle/Horn: The Whistle/Horn turn off by FL(f)

Whistle/Horn: The Whistle/Horn turn on by FL(f)

Couple Crash, Couple Arm, Coupler Fire: "0-1" If FL(f) changed when engine is moving, couple crash sounds are produced.

Couple Crash, Couple Arm, Coupler Fire: "1-0" If FL(f) changed when engine is in Neutral, Coupler Arm or Couple Fire occurs.

Steam Engine Blower Hiss or diesel: Blower-Hiss/Fans will turn on FL(f) and you will "take control" of Blower-Hiss/Fans.

Steam Engine Blower Hiss or diesel: Blower-Hiss/Fans will turn off FL(f) and you will "take control" of Blower-Hiss/Fans.

Dynamic Brakes: Dynamic Brakes will turn off by FL(f) and you will "take control" of Blower-Hiss/Fans.

Dynamic Brakes: Dynamic Brakes will turn on by FL(f)
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<tr>
<th>Line</th>
<th>Description</th>
<th>Value</th>
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<td>Output Function Location F5</td>
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<td>Output Function Location F6</td>
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<td>Output Function Location F7</td>
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<td>23</td>
<td>Output Function Location F8</td>
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<td>Output Function Location F10</td>
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<td>26</td>
<td>Output Function Location F11</td>
<td>1.0</td>
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<tr>
<td>27</td>
<td>Output Function Location F12</td>
<td>1.0</td>
</tr>
<tr>
<td>28</td>
<td>Total PWM Period</td>
<td>26</td>
</tr>
<tr>
<td>29</td>
<td>EMF Feedback Cutout</td>
<td>2</td>
</tr>
<tr>
<td>30</td>
<td>Packet Time-Out Value</td>
<td>1 second</td>
</tr>
<tr>
<td>31</td>
<td>V-High</td>
<td>Either 1 or 0 in this CV will disable V-High</td>
</tr>
<tr>
<td>32</td>
<td>Extended Address</td>
<td>CV 17 and 18 form a paired CV. CV 17 must be written first followed by CV 18</td>
</tr>
<tr>
<td>33</td>
<td>Speed Table Selection</td>
<td>Linear</td>
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<tr>
<td>34</td>
<td>Locomotive Direction</td>
<td>Forward Direction</td>
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<tr>
<td>35</td>
<td>Locomotive Direction</td>
<td>Reverse Direction</td>
</tr>
<tr>
<td>36</td>
<td>Speed and Direction instruction FL</td>
<td>14 Speed Step Mode</td>
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<td>37</td>
<td>Power Source Conversion</td>
<td>Power Source Conversion enabled</td>
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<tr>
<td>38</td>
<td>Power Source Conversion</td>
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<td>Speed Table set by Configuration Variables</td>
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<td>40</td>
<td>Speed Table set by Configuration Variables</td>
<td>Speed Table set by CV 25, Quantum Speed Table selection</td>
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<td>41</td>
<td>Extended Address mode enabled</td>
<td>Quantum responds to one byte address (see cv1)</td>
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<tr>
<td>42</td>
<td>Extended Address Mode enabled</td>
<td>Quantum responds to two byte Extented Address (CV17 and CV 18)</td>
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<tr>
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<td>Individual Address</td>
<td>Reserved for NMRA Use</td>
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<tr>
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<td>Individual Address</td>
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<td>Accessory Decoder</td>
<td>Multifunction Locomotive Decoder</td>
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<td>Accessory Decoder</td>
<td>Accessory Decoder</td>
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<td>V-Start</td>
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<td>Acceleration Rate</td>
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<td>V-High</td>
<td>Either 1 or 0 in this CV will disable V-High</td>
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<tr>
<td>57</td>
<td>Packet Time-Out Value</td>
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<td>Acceleration Adjustments</td>
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<td>Deceleration Adjustment</td>
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<td>Speed Table Selection</td>
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544, 32, Configuration Data #3, , 0
545, 33, Output Function Location for FL(f), , 0
546, 34, Output Function Location for FL(r)F1, , 0
547, 35, Output Function Location for F1, , 0
548, 36, Output Function Location for F2, , 0
549, 37, Output Function Location for F4, , 0
550, 38, Output Function Location for F4, , 0
551, 39, Output Function Location for F5, , 0
552, 40, Output Function Location for F6, , 0
553, 41, Output Function Location for F7, , 0
554, 42, Output Function Location for F8, , 0
555, 43, Output Function Location for F9, , 0
556, 44, Output Function Location for F10, , 0
557, 45, Output Function Location for F11, , 0
558, 46, Output Function Location for F12, , 0
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995,483, Reserved by NMRA for future use,,0
996,484, Reserved by NMRA for future use,,0
997,485, Reserved by NMRA for future use,,0
998,486, Reserved by NMRA for future use,,0
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1000,488, Reserved by NMRA for future use,,0
1001,489, Reserved by NMRA for future use,,0
1002,490, Reserved by NMRA for future use,,0
1003,491, Reserved by NMRA for future use,,0
1004,492, Reserved by NMRA for future use,,0
1005,493, Reserved by NMRA for future use,,0
1006,494, Reserved by NMRA for future use,,0
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1008,496, Reserved by NMRA for future use,,0
1009,497, Reserved by NMRA for future use,,0
1010,498, Reserved by NMRA for future use,,0
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1012,500, Reserved by NMRA for future use,,0
1013,501, Reserved by NMRA for future use,,0
1014,502, Reserved by NMRA for future use,,0
1015,503, Reserved by NMRA for future use,,0
1016,504, Reserved by NMRA for future use,,0
1017,505, Reserved by NMRA for future use,,0
1018,506, Reserved by NMRA for future use,,0
1019,507, Reserved by NMRA for future use,,0
1020,508, Reserved by NMRA for future use,,0
1021,509, Reserved by NMRA for future use,,0
1022,510, Reserved by NMRA for future use,,0
1023,511, Reserved by NMRA for future use,,0
1024,512, Reserved by NMRA for future use,,0
1025,1, Erweiterte Lokadresse, Lange Adresse der Lokomotive,,1
1026,3, Beschleunigungszeit, Dieser Wert multipliziert mit 0.869 ergibt die Zeit vom Stillstand bis zur Maximalgeschwindigkeit,,1
1029,4, Bremszeit, Dieser Wert multipliziert mit 0.869 ergibt die Zeit von der Maximalgeschwindigkeit bis zum Stillstand,,1
1030,5, Höchstgeschwindigkeit, Die Höchstgeschwindigkeit der Lok,,1
1031,6, Mittengeschwindigkeit, Die Geschwindigkeit der Lok bei mittlerer Fahrstufe,,1
1032,7, Versionsnummer, Interne Softwareversion des LokPiloten (nur lesen),,1
1033,8, Herstellerkennung, NMRA Kennung des Herstellers (nur lesen),,1
1034,18, Erweiterte Lokadresse, Lange Adresse der Lokomotive,,1
1035,19, Erweiterte Lokadresse, Lange Adresse der Lokomotive,,1
1036,2, Anfahrspannung, Interne Fahrstufe für die erste externe Fahrstufe (also Fahrstufe 1),,1
1037,29, Einstellungen 1, Diverse Einstellungen der Lok,,1
1038,60, Einstellungen 2, Diverse Einstellungen der Lok,,1
1,1,29,0,0,0
2,2,29,0,1,0
3,3,29,0,0,1
4,4,29,0,1,1