

**Appendix A: Manufacturer ID codes as assigned by the NMRA**

The following Manufacturer ID codes have been assigned by the NMRA Technical Department. Manufacturers not on this list shall apply to the NMRA Technical Department for the assignment of a unique manufacturer ID.

<b>Manufacturer</b>	<b>Binary</b>	<b>Hex</b>	<b>Decimal</b>	<b>Country</b>
Advance IC Engineering	10001	0x11	17	US
AMW	10011	0x13	19	AT
ANE Model Co, Ltd	101101	0x2D	45	TWN
Aristo-Craft Trains	100010	0x22	34	US
Arnold – Rivarossi	10101101	0xAD	173	DE
Atlas Model Railroad Products	1111111	0x7F	127	US
AuroTrains	10101010	0xAA	170	US/IT
Bachmann Trains	1100101	0x65	101	US
Brelec	00011111	0x1F	31	BE
BRAWA Modellspielwaren GmbH & Co.	10111010	0xBA	186	DE
Broadway Limited Imports, LLC	100110	0x26	38	US
Capecom	101111	0x2F	47	AU
CML Electronics Limited	1	0x01	1	UK
Computer Dialysis France	1101001	0x69	105	FR
Con-Com GmbH	11001100	0xCC	204	AT
cT Elektronik	1110101	0x75	117	AT
CVP Products	10000111	0x87	135	US
DCCconcepts	100100	0x24	36	AU
DCC Supplies, Ltd	110011	0x33	51	UK
Dietz Modellbahntechnik	1110011	0x73	115	DE
Digirails	101010	0x2A	42	NL
Digitrax	10000001	0x81	129	US
Digsight	11110	0x1E	30	CN
Doehler & Haas	1100001	0x61	97	DE
Educational Computer, Inc.	100111	0x27	39	US
Elektronik & Model Produktion	100011	0x23	35	SE
Electronic Solutions Ulm GmbH	10010111	0x97	151	DE
Elproma Electronics Poland	11100001	0xE1	225	POL
Gebr. Fleischmann GmbH & Co.	10011011	0x9B	155	DE
GFB Designs	101110	0x2E	46	UK
Haber & Koenig Electronics GmbH (HKE)	1101111	0x6F	111	AT
Heljan A/S	11100	0x1C	28	DK
Hornby Hobbies Ltd	110000	0x30	48	UK
Intelligent Command Control	10000101	0x85	133	US
Joka Electronic	110001	0x31	49	DE
JMRI	10010	0x12	18	US
KAM Industries	10110	0x16	22	US
KATO Precision Models	101000	0x28	40	JP
Kreischer Datentechnik	10101	0x15	21	DE
Krois-Modell	110100	0x34	52	AT
Kuehn Ing.	10011101	0x9D	157	DE
Lenz Elektronik GmbH	1100011	0x63	99	DE
LDH	111000	0x38	56	ARG
LGB (Ernst Paul Lehmann Patentwerk)	10011111	0x9F	159	DE
Massoth Elektronik, GmbH	1111011	0x7B	123	DE
MAWE Elektronik	1000100	0x44	68	CH
MBTronik – PiN GITmBH	11010	0x1A	26	DE
Mistral Train Models	11101	0x1D	29	BE
MoBaTron.de	11000	0x18	24	DE

<b>Manufacturer</b>	<b>Binary</b>	<b>Hex</b>	<b>Decimal</b>	<b>Country</b>
Model Electronic Railway Group	10100101	0xA5	165	UK
Model Rectifier Corp.	10001111	0x8F	143	US
Modelleisenbahn GmbH (formerly Roco)	10100001	0xA1	161	AT
MTH Electric Trains, Inc.	11011	0x1B	27	US
N&Q Electronics	110010	0x32	50	ESP
NAC Services, Inc	100101	0x25	37	US
Nagasue System Design Office	1100111	0x67	103	JP
NCE Corporation (formerly North Coast Engineering)	1011	0x0B	11	US
New Youk Byano Limited	1000111	0x47	71	HK
Ngineering	101011	0x2B	43	US
NMRA Reserved	11101110	0xEE	238	US
Passmann	101001	0x29	41	DE
Praecipuus	100001	0x21	33	CA
ProfiLok Modellbahntechnik GmbH	1111101	0x7D	125	DE
PSI –Dynatrol	1110	0x0E	14	US
Public Domain & Do-It-Yourself Decoders	1101	0x0D	13	-
QElectronics GmbH	110111	0x37	55	DE
QS Industries (QSI)	1110001	0x71	113	US
Railnet Solutions, LLC	1000010	0x42	66	US
Ramfixx Technologies (Wangrow)	1111	0x0F	15	CA/US
Rautenhaus Digital Vertrieb	110101	0x35	53	DE
RealRail Effects	10001011	0x8B	139	US
Regal Way Co. Ltd	100000	0x20	32	HK
Rock Junction Controls	10010101	0x95	149	US
RR-Cirkits	1010111	0x57	87	US
S Helper Service	10111	0x17	23	US
Sanda Kan Industrial, Ltd.	1011111	0x5F	95	HK
SPROG-DCC	101100	0x2C	44	UK
T4T – Technology for Trains GmbH	10100	0x14	20	DE
Tams Elektronik GmbH	111110	0x3E	62	DE
TCH Technology	110110	0x36	54	US
Team Digital, LLC	11001	0x19	25	US
The Electric Railroad Company	1001001	0x49	73	US
Throttle-Up (Soundtraxx)	10001101	0x8D	141	US
Train Control Systems	10011001	0x99	153	US
Train Technology	10	0x02	2	BE
Trix Modelleisenbahn	10000011	0x83	131	DE
Uhlenbrock GmbH	1010101	0x55	85	DE
Umelec Ing. Buero	10010011	0x93	147	CH
Viessmann Modellspielwaren GmbH	1101101	0x6D	109	DE
W. S. Ataras Engineering	1110111	0x77	119	US
Wangrow Electronics	1100	0x0C	12	US
WP Railshops	10100011	0xA3	163	CA
Zimo Elektronik	10010001	0x91	145	AT
ZTC	10000100	0x84	132	UK