

Symbol	Typ	Titel
<b>H</b>	<b>Sektion</b>	<b>ELECTRICITY</b>
<b>H03</b>	<b>Klasse</b>	<b>BASIC ELECTRONIC CIRCUITRY</b>
<b>H03M</b>	<b>Unterkategorie</b>	<b>CODING, DECODING OR CODE CONVERSION, IN GENERAL (using fluidic means F15C 4/00 ; optical analogue/digital converters G02F 7/00; coding, decoding or code conversion, specially adapted for particular applications, <u>see</u> the relevant subclasses, e.g. G01D, G01R, G06F, G06T, G09G, G10L, G11B, G11C, H04B, H04L, H04M, H04N; ciphering or deciphering for cryptography or other purposes involving the need for secrecy G09C) [4]</b>
<b>H03M 1/00</b>	<b>Hauptgruppe</b>	<b>Analogue/digital conversion; Digital/analogue conversion (conversion of analogue values to or from differential modulation H03M 3/00) [4, 2006.01]</b>
H03M 1/02	1-Punkt Untergruppe	. Reversible analogue/digital converters [4, 2006.01]
H03M 1/04	1-Punkt Untergruppe	. using stochastic techniques [4, 2006.01]
H03M 1/06	1-Punkt Untergruppe	. Continuously compensating for, or preventing, undesired influence of physical parameters (periodically H03M 1/10) [4, 2006.01]
H03M 1/08	2-Punkt Untergruppe	... of noise [4, 2006.01]
H03M 1/10	1-Punkt Untergruppe	. Calibration or testing [4, 2006.01]
H03M 1/12	1-Punkt Untergruppe	. Analogue/digital converters (H03M 1/02-H03M 1/10 take precedence) [4, 2006.01]
H03M 1/14	2-Punkt Untergruppe	... Conversion in steps with each step involving the same or a different conversion means and delivering more than one bit [4, 2006.01]
H03M 1/16	3-Punkt Untergruppe	... with scale factor modification, i.e. by changing the amplification between the steps [4, 2006.01]
H03M 1/18	2-Punkt Untergruppe	... Automatic control for modifying the range of signals the converter can handle, e.g. gain ranging [4, 2006.01]
H03M 1/20	2-Punkt Untergruppe	... Increasing resolution using an n bit system to obtain n + m bits, e.g. by dithering [4, 2006.01]
H03M 1/22	2-Punkt Untergruppe	... pattern-reading type [4, 2006.01]
H03M 1/24	3-Punkt Untergruppe	... using relatively movable reader and disc or strip [4, 6, 2006.01]
H03M 1/26	4-Punkt Untergruppe	.... with weighted coding, i.e. the weight given to a digit depends on the position of the digit within the block or code word, e.g. there is a given radix and the weights are powers of this radix [4, 2006.01]
H03M 1/28	4-Punkt Untergruppe	.... with non-weighted coding [4, 2006.01]
H03M 1/30	5-Punkt Untergruppe	..... incremental [4, 2006.01]
H03M 1/32	3-Punkt Untergruppe	... using cathode-ray tubes [4, 2006.01]
H03M 1/34	2-Punkt Untergruppe	... Analogue value compared with reference values (H03M 1/48 takes precedence) [4, 2006.01]
H03M 1/36	3-Punkt Untergruppe	... simultaneously only, i.e. parallel type [4, 2006.01]
H03M 1/38	3-Punkt Untergruppe	... sequentially only, e.g. successive approximation type (converting more than one bit per step H03M 1/14) [4, 2006.01]
H03M 1/40	4-Punkt Untergruppe	.... recirculation type [4, 2006.01]
H03M 1/42	4-Punkt Untergruppe	.... Sequential comparisons in series-connected stages with no change in value of analogue signal [4, 2006.01]

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H03M 1/44	4-Punkt Untergruppe	.... Sequential comparisons in series-connected stages with change in value of analogue signal [4, 2006.01]
H03M 1/46	4-Punkt Untergruppe	.... with digital/analogue converter for supplying reference values to converter [4, 2006.01]
H03M 1/48	2-Punkt Untergruppe	... Servo-type converters [4, 2006.01]
H03M 1/50	2-Punkt Untergruppe	... with intermediate conversion to time interval (H03M 1/64 takes precedence) [4, 2006.01]
H03M 1/52	3-Punkt Untergruppe	... Input signal integrated with linear return to datum [4, 2006.01]
H03M 1/54	3-Punkt Untergruppe	... Input signal sampled and held with linear return to datum [4, 2006.01]
H03M 1/56	3-Punkt Untergruppe	... Input signal compared with linear ramp [4, 2006.01]
H03M 1/58	3-Punkt Untergruppe	... Non-linear conversion [4, 2006.01]
H03M 1/60	2-Punkt Untergruppe	... with intermediate conversion to frequency of pulses [4, 2006.01]
H03M 1/62	3-Punkt Untergruppe	... Non-linear conversion [4, 2006.01]
H03M 1/64	2-Punkt Untergruppe	... with intermediate conversion to phase of sinusoidal signals [4, 2006.01]
H03M 1/66	1-Punkt Untergruppe	. Digital/analogue converters (H03M 1/02-H03M 1/10 take precedence) [4, 2006.01]
H03M 1/68	2-Punkt Untergruppe	... with conversions of different sensitivity, i.e. one conversion relating to the more significant digital bits and another conversion to the less significant bits [4, 2006.01]
H03M 1/70	2-Punkt Untergruppe	... Automatic control for modifying converter range [4, 2006.01]
H03M 1/72	2-Punkt Untergruppe	... Sequential conversion in series-connected stages (H03M 1/68 takes precedence) [4, 2006.01]
H03M 1/74	2-Punkt Untergruppe	... Simultaneous conversion [4, 2006.01]
H03M 1/76	3-Punkt Untergruppe	... using switching tree [4, 2006.01]
H03M 1/78	3-Punkt Untergruppe	... using ladder network [4, 2006.01]
H03M 1/80	3-Punkt Untergruppe	... using weighted impedances (H03M 1/76 takes precedence) [4, 2006.01]
H03M 1/82	2-Punkt Untergruppe	... with intermediate conversion to time interval [4, 2006.01]
H03M 1/84	3-Punkt Untergruppe	... Non-linear conversion [4, 2006.01]
H03M 1/86	2-Punkt Untergruppe	... with intermediate conversion to frequency of pulses [4, 2006.01]
H03M 1/88	3-Punkt Untergruppe	... Non-linear conversion [4, 2006.01]
<b>H03M 3/00</b>	<b>Hauptgruppe</b>	<b>Conversion of analogue values to or from differential modulation [4, 2006.01]</b>
H03M 3/02	1-Punkt Untergruppe	. Delta modulation, i.e. one-bit differential modulation [4, 2006.01]
H03M 3/04	1-Punkt Untergruppe	. Differential modulation with several bits [4, 2006.01]
<b>H03M 5/00</b>	<b>Hauptgruppe</b>	<b>Conversion of the form of the representation of individual digits [4, 2006.01]</b>
H03M 5/02	1-Punkt Untergruppe	. Conversion to or from representation by pulses [4, 2006.01]
H03M 5/04	2-Punkt Untergruppe	... the pulses having two levels [4, 2006.01]
H03M 5/06	3-Punkt Untergruppe	... Code representation, e.g. transition, for a given bit cell depending only on the information in that bit cell [4, 2006.01]
H03M 5/08	4-Punkt Untergruppe	.... Code representation by pulse width [4, 2006.01]
H03M 5/10	4-Punkt Untergruppe	.... Code representation by pulse frequency [4, 2006.01]

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H03M 5/12	4-Punkt Untergruppe	.... Biphase level code, e.g. split phase code, Manchester code; Biphase space or mark code, e.g. double frequency code [4, 2006.01]
H03M 5/14	3-Punkt Untergruppe	... Code representation, e.g. transition, for a given bit cell depending on the information in one or more adjacent bit cells, e.g. delay modulation code, double density code [4, 2006.01]
H03M 5/16	2-Punkt Untergruppe	... the pulses having three levels [4, 2006.01]
H03M 5/18	3-Punkt Untergruppe	... two levels being symmetrical with respect to the third level, i.e. balanced bipolar ternary code [4, 2006.01]
H03M 5/20	2-Punkt Untergruppe	... the pulses having more than three levels [4, 2006.01]
H03M 5/22	1-Punkt Untergruppe	. Conversion to or from representation by sinusoidal signals [4, 2006.01]
<b>H03M 7/00</b>	<b>Hauptgruppe</b>	<b>Conversion of a code where information is represented by a given sequence or number of digits to a code where the same information is represented by a different sequence or number of digits [4, 2006.01]</b>
H03M 7/02	1-Punkt Untergruppe	. Conversion to or from weighted codes, i.e. the weight given to a digit depending on the position of the digit within the block or code word [4, 2006.01]
H03M 7/04	2-Punkt Untergruppe	... the radix thereof being two [4, 2006.01]
H03M 7/06	2-Punkt Untergruppe	... the radix thereof being a positive integer different from two [4, 2006.01]
H03M 7/08	3-Punkt Untergruppe	... the radix being ten, i.e. pure decimal code [4, 2006.01]
H03M 7/10	2-Punkt Untergruppe	... the radix thereof being negative [4, 2006.01]
H03M 7/12	2-Punkt Untergruppe	... having two radices, e.g. binary-coded-decimal code [4, 2006.01]
H03M 7/14	1-Punkt Untergruppe	. Conversion to or from non-weighted codes [4, 2006.01]
H03M 7/16	2-Punkt Untergruppe	... Conversion to or from unit-distance codes, e.g. Gray code, reflected binary code [4, 2006.01]
H03M 7/18	2-Punkt Untergruppe	... Conversion to or from residue codes [4, 2006.01]
H03M 7/20	2-Punkt Untergruppe	... Conversion to or from n-out-of-m codes [4, 2006.01]
H03M 7/22	3-Punkt Untergruppe	... to or from one-out-of-m codes [4, 2006.01]
H03M 7/24	2-Punkt Untergruppe	... Conversion to or from floating-point codes [4, 2006.01]
H03M 7/26	1-Punkt Untergruppe	. Conversion to or from stochastic codes [4, 2006.01]
H03M 7/28	1-Punkt Untergruppe	. Programmable structures, i.e. where the code converter contains apparatus which is operator-changeable to modify the conversion process [4, 2006.01]
H03M 7/30	1-Punkt Untergruppe	. Compression (speech analysis-synthesis for redundancy reduction G10L 19/00; for image communication H04N); Expansion; Suppression of unnecessary data, e.g. redundancy reduction [4, 2006.01]
H03M 7/32	2-Punkt Untergruppe	... Conversion to or from delta modulation, i.e. one-bit differential modulation [4, 2006.01]
H03M 7/34	3-Punkt Untergruppe	... adaptive [4, 2006.01]
H03M 7/36	2-Punkt Untergruppe	... Conversion to or from differential modulation with several bits, i.e. the difference between successive samples being coded by more than one bit [4, 2006.01]
H03M 7/38	3-Punkt Untergruppe	... adaptive [4, 2006.01]
H03M 7/40	2-Punkt Untergruppe	... Conversion to or from variable length codes, e.g. Shannon-Fano code, Huffman code, Morse code [4, 2006.01]

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H03M 7/42	3-Punkt Untergruppe	... using table look-up for the coding or decoding process, e.g. using read-only memory [4, 2006.01]
H03M 7/44	3-Punkt Untergruppe	... Suppression of irrelevant zeroes [4, 2006.01]
H03M 7/46	2-Punkt Untergruppe	... Conversion to or from run-length codes, i.e. by representing the number of consecutive digits, or groups of digits, of the same kind by a code word and a digit indicative of that kind [4, 2006.01]
H03M 7/48	3-Punkt Untergruppe	... alternating with other codes during the code conversion process, e.g. run-length coding being performed only as long as sufficiently long runs of digits of the same kind are present [4, 2006.01]
H03M 7/50	2-Punkt Untergruppe	... Conversion to or from non-linear codes, e.g. companding [4, 2006.01]
<b>H03M 9/00</b>	<b>Hauptgruppe</b>	<b>Parallel/series conversion or vice versa (digital stores in which the information is moved stepwise G11C 19/00) [4, 2006.01]</b>
<b>H03M 11/00</b>	<b>Hauptgruppe</b>	<b>Coding in connection with keyboards or like devices, i.e. coding of the position of operated keys (keyboard switch arrangements, structural association of coders and keyboards H01H 13/70, H03K 17/94) [4, 2006.01]</b>
H03M 11/02	1-Punkt Untergruppe	. Details [5, 2006.01]
H03M 11/04	2-Punkt Untergruppe	... Coding of multifunction keys [5, 2006.01]
H03M 11/06	3-Punkt Untergruppe	... by operating the multifunction key itself in different ways [5, 2006.01]
H03M 11/08	4-Punkt Untergruppe	.... by operating selected combinations of multifunction keys [5, 2006.01]
H03M 11/10	4-Punkt Untergruppe	.... by methods based on duration or pressure detection of keystrokes [5, 2006.01]
H03M 11/12	4-Punkt Untergruppe	.... by operating a key a selected number of consecutive times whereafter a separate enter key is used which marks the end of the series [5, 2006.01]
H03M 11/14	3-Punkt Untergruppe	... by using additional keys, e.g. shift keys, which determine the function performed by the multifunction key [5, 2006.01]
H03M 11/16	4-Punkt Untergruppe	.... wherein the shift keys are operated after the operation of the multifunction keys [5, 2006.01]
H03M 11/18	4-Punkt Untergruppe	.... wherein the shift keys are operated before the operation of the multifunction keys [5, 2006.01]
H03M 11/20	1-Punkt Untergruppe	. Dynamic coding, i.e. by key scanning (H03M 11/26 takes precedence) [5, 2006.01]
H03M 11/22	1-Punkt Untergruppe	. Static coding (H03M 11/26 takes precedence) [5, 2006.01]
H03M 11/24	2-Punkt Untergruppe	.. using analogue means [5, 2006.01]
H03M 11/26	1-Punkt Untergruppe	. using opto-electronic means [5, 2006.01]
<b>H03M 13/00</b>	<b>Hauptgruppe</b>	<b>Coding, decoding or code conversion, for error detection or error correction; Coding theory basic assumptions; Coding bounds; Error probability evaluation methods; Channel models; Simulation or testing of codes (error detection or error correction for analogue/digital, digital/analogue or code conversion H03M 1/00-H03M 11/00; specially adapted for digital computers G06F 11/08; for information storage based on relative movement between record carrier and transducer G11B, e.g. G11B 20/18; for static stores G11C) [4, 7, 2006.01]</b>
H03M 13/01	1-Punkt Untergruppe	. Coding theory basic assumptions; Coding bounds; Error probability evaluation methods; Channel models; Simulation or testing of codes [7, 2006.01]
H03M 13/03	1-Punkt Untergruppe	. Error detection or forward error correction by redundancy in data representation, i.e. code words containing more digits than the source words [7, 2006.01]
H03M 13/05	2-Punkt Untergruppe	.. using block codes, i.e. a predetermined number of check bits joined to a predetermined number of information bits [7, 2006.01]
H03M 13/07	3-Punkt Untergruppe	... Arithmetic codes [7, 2006.01]

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H03M 13/09	3-Punkt Untergruppe	... Error detection only, e.g. using cyclic redundancy check [CRC] codes or single parity bit [7, 2006.01]
H03M 13/11	3-Punkt Untergruppe	... using multiple parity bits [7, 2006.01]
H03M 13/13	3-Punkt Untergruppe	... Linear codes [7, 2006.01]
H03M 13/15	4-Punkt Untergruppe	.... Cyclic codes, i.e. cyclic shifts of codewords produce other codewords, e.g. codes defined by a generator polynomial, Bose-Chaudhuri-Hocquenghem [BCH] codes (H03M 13/17 takes precedence) [7, 2006.01]
H03M 13/17	4-Punkt Untergruppe	.... Burst error correction, e.g. error trapping, Fire codes [7, 2006.01]
H03M 13/19	4-Punkt Untergruppe	.... Single error correction without using particular properties of the cyclic codes, e.g. Hamming codes, extended or generalised Hamming codes [7, 2006.01]
H03M 13/21	3-Punkt Untergruppe	... Non-linear codes, e.g. m-bit data word to n-bit code word [mBnB] conversion with error detection or error correction [7, 2006.01]
H03M 13/23	2-Punkt Untergruppe	... using convolutional codes, e.g. unit memory codes [7, 2006.01]
H03M 13/25	1-Punkt Untergruppe	. Error detection or forward error correction by signal space coding, i.e. adding redundancy in the signal constellation, e.g. Trellis Coded Modulation [TCM] [7, 2006.01]
H03M 13/27	1-Punkt Untergruppe	. using interleaving techniques [7, 2006.01]
H03M 13/29	1-Punkt Untergruppe	. combining two or more codes or code structures, e.g. product codes, generalised product codes, concatenated codes, inner and outer codes [7, 2006.01]
H03M 13/31	1-Punkt Untergruppe	. combining coding for error detection or correction and efficient use of the spectrum (without error detection or correction H03M 5/14) [7, 2006.01]
H03M 13/33	1-Punkt Untergruppe	. Synchronisation based on error coding or decoding [7, 2006.01]
H03M 13/35	1-Punkt Untergruppe	. Unequal or adaptive error protection, e.g. by providing a different level of protection according to significance of source information or by adapting the coding according to the change of transmission channel characteristics [7, 2006.01]
H03M 13/37	1-Punkt Untergruppe	. Decoding methods or techniques, not specific to the particular type of coding provided for in groups H03M 13/03-H03M 13/35 [7, 2006.01]
H03M 13/39	2-Punkt Untergruppe	... Sequence estimation, i.e. using statistical methods for the reconstruction of the original codes [7, 2006.01]
H03M 13/41	3-Punkt Untergruppe	... using the Viterbi algorithm or Viterbi processors [7, 2006.01]
H03M 13/43	2-Punkt Untergruppe	... Majority logic or threshold decoding [7, 2006.01]
H03M 13/45	2-Punkt Untergruppe	... Soft decoding, i.e. using symbol reliability information (H03M 13/41 takes precedence) [7, 2006.01]
H03M 13/47	1-Punkt Untergruppe	. Error detection, forward error correction or error protection, not provided for in groups H03M 13/01-H03M 13/37 [7, 2006.01]
H03M 13/49	2-Punkt Untergruppe	... Unidirectional error detection or correction [7, 2006.01]
H03M 13/51	2-Punkt Untergruppe	... Constant weight codes; n-out-of-m codes; Berger codes [7, 2006.01]
H03M 13/53	2-Punkt Untergruppe	... Codes using Fibonacci numbers series [7, 2006.01]
<b>H03M 99/00</b>	<b>Hauptgruppe</b>	<b>Subject matter not provided for in other groups of this subclass [2006.01]</b>