

| BCD-codering | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Minuten (0 – 59) | 0 | 40 | 20 | 10 | 8 | 4 | 2 | 1 |
| Uren (0 – 23) | 0 | 0 | 20 | 10 | 8 | 4 | 2 | 1 |
| Dag v.d. maand (0 – 31) | 0 | 0 | 20 | 10 | 8 | 4 | 2 | 1 |
| Maand (0 – 12) | 0 | 0 | 0 | 10 | 8 | 4 | 2 | 1 |
| Jaar v.d. eeuw (0 – 99) | 80 | 40 | 20 | 10 | 8 | 4 | 2 | 1 |

| BCD-codering | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|--------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|
| Tientallen | $2^4 * 10$ | $2^3 * 10$ | $2^2 * 10$ | $2^1 * 10$ | n.v.t. | n.v.t. | n.v.t. | n.v.t. |
| Eenheden | n.v.t. | n.v.t. | n.v.t. | n.v.t. | $2^4 * 1$ | $2^3 * 1$ | $2^2 * 1$ | $2^1 * 1$ |

Dus per decimaal getal (0 – 9) binair gecodeerd en aan elkaar geplakt:

HH:MM:SS

DD:MM:JJ

$H_1H_2:M_1M_2$

$D_1D_2:M_1M_2:J_1J_2$

$H_1 \Rightarrow$ Bits 34 t/m 33

$D_1 \Rightarrow$ Bits 41 t/m 40

$H_2 \Rightarrow$ Bits 32 t/m 29

$D_2 \Rightarrow$ Bits 39 t/m 36

$M_1 \Rightarrow$ Bits 27 t/m 25

$M_1 \Rightarrow$ Bit 49

$M_2 \Rightarrow$ Bits 25 t/m 21

$M_2 \Rightarrow$ Bit 48 t/m 45

$J_1 \Rightarrow$ Bits 57 t/m 54

$J_2 \Rightarrow$ Bits 53 t/m 50

| DCF77 time code | | | | | | | | | | | |
|-----------------|--------|----|--|-----|--------|----|-------------------------------------|-----|--------|----|---------------------------------------|
| Bit | Weight | | Meaning | Bit | Weight | | Meaning | Bit | Weight | | Meaning |
| | PM | AM | | | PM | AM | | | PM | AM | |
| :00 | 1 | M | Start of minute. Always 0. | :20 | S | | Start of encoded time. Always 1. | :40 | | 10 | Day of month (continued) |
| :01 | 1 | | Civil warning bits, ^[18] provided by the Bundesamt für Bevölkerungsschutz und Katastrophenwarnung (Federal Office of Civil protection and Disaster Relief). Also contains weather broadcasts. ^{[17][19]} | :21 | | 1 | Minutes 00–59 | :41 | | 20 | |
| :02 | 1 | | | :22 | | 2 | | :42 | | 1 | Day of week Monday=1, Sunday=7 |
| :03 | 1 | | | :23 | | 4 | | :43 | | 2 | |
| :04 | 1 | | | :24 | | 8 | | :44 | | 4 | Month number 01–12 |
| :05 | 1 | | | :25 | | 10 | | :45 | | 1 | |
| :06 | 1 | | | :26 | | 20 | | :46 | | 2 | |
| :07 | 1 | | | :27 | | 40 | | :47 | | 4 | |
| :08 | 1 | | | :28 | P1 | | Even parity over minute bits 21–28. | :48 | | 8 | |
| :09 | 1 | | | :29 | | 1 | Hours 0–23 | :49 | | 10 | Year within century 00–99 |
| :10 | 0 | | | :30 | | 2 | | :50 | | 1 | |
| :11 | 0 | | | :31 | | 4 | | :51 | | 2 | |
| :12 | 0 | | | :32 | | 8 | | :52 | | 4 | |
| :13 | 0 | | | :33 | | 10 | | :53 | | 8 | |
| :14 | 0 | | | :34 | | 20 | | :54 | | 10 | |
| :15 | R | | Call bit: abnormal transmitter operation. ^[17] Previously: backup antenna in use. | :35 | P2 | | Even parity over hour bits 29–35. | :55 | | 20 | |
| :16 | A1 | | Summer time announcement. Set during hour before change. | :36 | | 1 | Day of month. 01–31 | :56 | | 40 | |
| :17 | Z1 | | Set to 1 when CEST is in effect. | :37 | | 2 | | :57 | | 80 | |
| :18 | Z2 | | Set to 1 when CET is in effect. | :38 | | 4 | | :58 | P3 | | Even parity over date bits 36–58. |
| :19 | A2 | | Leap second announcement. Set during hour before leap second. | :39 | | 8 | | :59 | 0 | | Minute mark: no amplitude modulation. |

Afb.: DCF77 time code, bron: Wikipedia