



## BMC-I102

### Microprocessor controlled bus master clock

- + 110V to 230V (-10 to +10%) 50 Hz power supply
- + 24 V DC output voltage, line voltage potential separated for system supply
- + 0.4 A line current
- + One line output with polarised impulses for connection of up to 40 impulse controlled slave clocks or self correcting time coded slave clocks (analogue and digital ones)
- + Mixed operation of slave clocks and self correcting clocks possible
- + Impulse to break rate programmable
- + Line parameters adjustable:
  - + Line type: Minutes, ½ minutes, seconds line or time code line for operation of self correcting clocks
  - + Movements: 12 hours, 24 hours, digital week day- and date movements
- + Electronic short-circuit protection
- + Automatic adjustment of slave clocks after mains failure or short-circuit of the line via electronic impulse memory for min. 5 years
- + Pre-programmed or automatic summer-/winter daylight-saving time
- + Double-spaced digital LCD display for indication of master clock time, summer/winter time, date, day, holiday, DCF-reception line stop, short-circuit of line and status of relays
- + Menu guided programming
- + RS 485 bus for module extensions
- + Synchronisation through:
  - + DCF-77 (for time and summer-/winter daylight-saving time)
  - + GPS system (for time and summer-/winter daylight-saving time)
  - + Grid-bound DCF-77 signal
- + DCF quality indication in menu, for display of last synchronisation date
- + Accuracy +/- 0.1 s/day (without external synchronisation)
- + Ivory metallic keypad
- + Power consumption: <20 mA AC in non-operating state without load

#### Signal outputs

- + 2 independent potential free switching outputs, maximum load 1 A / 250 V AC (ohmic load)
- + Free programmable day- and week programmes (programmable holiday calendar)
- + Switching commands ON/OFF and TIMER (1...99 s) at every second and manually

- + Each output programmable as alarm contact
  - + Fault 1: DCF synchronisation defective (adjustable between 0...99 hours) or
  - + Fault 2: Line short-circuit
  - + Alarm message resettable automatically or manually

### Mounting

DIN M36 plastic case for wall mounting or placement into switch box (onto top hat rail)

Dimensions W x H x D = 157 x 86 x 58 mm (9 module length measurements)

Ambient temperature: - 10° C to 50° C

Relative humidity: 85 % non-condensing

Colour: grey (RAL 7035)

### Options:

BMC-LINIE:	External line module, 24VDC power supply, two slave clock lines 1 A each
BMC-2REL:	BMC relay extension for totally 4 relay outputs
BMC-NET:	BMC network module, for top hat rail mounting, 24VDC, NTP Server- or NTP Client function, web server for remote control and configuration, alarm message per e-mail
DCF-ANT02:	DCF-77 radio synchronisation antenna
GPS-ANT8:	GPS reception antenna with DCF output



MATTIG



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