

CONTEST 2012

The CONTEST2012 is PLL synthesized, fully programmable HF / VHF ARDF transmitter designed for any level of ARDF competition or training (advanced version of the CONTEST2007). The possibility of frequency, transmitted code, keying speed and timing schedule adjustments opens the new area in the ARDF competitions and allows using more transmitters on different frequencies. All parameters are widely adjustable via user-friendly menu on the detachable control panel while the transmitter itself is constructed as a high resistant, waterproof unit.



After all parameters are set, the operation is very easy: just install the antenna, plug in the connector and transmitter automatically recognizes the proper band and starts operation. Just one button click and internal automatic antenna tuner will provide optimum matching of the HF antenna.

The transmitter has no "turned off" state. If no accessories (antenna, control panel, charger etc.) is connected, the transmitter drains almost no energy (only preserving settings and time), but it is always ready for operation.

High capacity, lightweight LI-Ion accumulator provides enough capacity even for longer competitions.

FEATURES:

- **PLL synthesizer provides 16 channels in 3,5 MHz band and 16 channels in 144 MHz band**
- **Output power adjustable in 2 levels – 3 W or 1 W**
- **9 various timing schedules**
- **Various transmitted codes**
- **Keying speed adjustable in 4 steps**
- **Automatic band recognition**
- **Internal accumulator protection against deep discharge**
- **Built-in automatic charger**
- **Built.in automatic antenna tuner**
- **Accumulator voltage telemetrically indicated at the end of every relation**
- **In-system programming port – firmware upgradeable**
- **Rugged, waterproof aluminum house**

SPECIFICATIONS**GENERAL**

Power supply: built-in Li-Ion accumulator 7,4V/5Ah
Charger: built-in automatic, supplied from any 12V (10...16V) DC source
Operating temperature range: -10 ...+ 60°C
Storage temperature range: -20 ...+ 60°C
Covering: IP65
Dimensions: 80 (W) x 45(H) x 220 (D) mm (projections not included)
Weight: 700 g

| Operation period at fully charged accumulator: | REL | CONT |
|--|--------|--------|
| POWER HI | 40 hrs | 8 hrs |
| POWER LO | 90 hrs | 18 hrs |

TRANSMITTER 3.5 MHz

Carrier frequency: 16 channels (3,51 ... 3,66 MHz)
Mode: CW
Output RF power @ 50 ohm: HIGH: 3 W, LOW: 1 W
Spurious emissions: less than -70 dB
Antenna tuner: built-in automatic
Antenna tuner range: 30...600 ohm unbalanced
Antenna: 8 m vertical wire+ 8 m counterpoise

TRANSMITTER 144 MHz

Carrier frequency: 16 channels (144,2 ... 145,5 MHz)
Mode: A2A, AM 75%, keyed carrier
Output RF power @ 50 ohm: HIGH: 3 W PEP, LOW: 1 W PEP
Spurious emissions: less than -70 dB
Antenna: omnidirectional turnstile

LOGIC UNIT

Transmitted codes: MOE, MOI, MOS, MOH, MO5, MO, A ... Z
Keying speed: 35,50,70 or 100 PARIS
Timing schedules: 60 /240 (s, transmit/ space), 30/120, 30/270, 12/48, 15/45, 30/30, 15/15, 60/60, 60/120
Delayed start: any time up to 24 hours in the future
Real-time stability: +-2ppm (approx. 1s/week), kept by RTC even while turned off
Language versions: ENG, CZE

SUPPLIED ACCESSORIES

- 3,5 MHz wire antenna+counterpoise
- 144 MHz turnstile antenna
- Detachable control panel
- Instruction manual

OPTIONS

- Synchro cable
- PGMContest USB PC interface
- 12V/6A source for 1-6 transmitters
- Cable lock
- Foxoring antenna
- Various antennas

