

TECHNICAL SPECIFICATIONS FOR ARDF TRANSMITTERS

3,5 MHz CLASSIC (10 transmitters system: slow TX 1-5 at one frequency, fast TX 1R-5R at another frequency)

Equipment:	CONTEST2012		
RF power:	3 W		
Antenna:	8 m vertical + 8 m single radial counterpoise		
TX intervals:	TX 1-5, 1R-5R (codes MOE-MO5): 1 min transmitting, 4 min space finish beacon (code MO): continuous operation Transmitting interval ends with a 2 s dash.		
Modulation:	A1A		
Frequency:	TX 1-5 (codes MOE-MO5):	3,550 MHz	keying speed: 50 PARIS
	TX 1R-5R (codes MOE-MO5):	3,570 MHz	keying speed: 70 PARIS
	finish beacon (code MO):	3,600 MHz	keying speed: 50 PARIS

144 MHz CLASSIC (10 transmitters system: slow TX 1-5 at one frequency, fast TX 1R-5R at another frequency)

Equipment:	CONTEST2012		
RF power:	3 W PEP		
Antenna:	crossed dipoles 3 m above ground level		
TX intervals:	TX 1-5, 1R-5R (codes MOE-MO5): 1 min transmitting, 4 min space finish beacon (code MO): continuous operation Transmitting interval ends with a 2 s dash.		
Modulation:	A2A, AM 80%, 1 kHz modulation tone.		
Frequency:	TX 1-5 (codes MOE-MO5):	144,500 MHz	keying speed: 50 PARIS
	TX 1R-5R (codes MOE-MO5):	144,850 MHz	keying speed: 70 PARIS
	finish beacon (code MO):	145,200 MHz	keying speed: 50 PARIS

3,5 MHz SPRINT

Equipment:	CONTEST2012		
RF power:	1 W		
Antenna:	8 m vertical + 8 m single radial counterpoise		
TX intervals:	TX 1-5, 1R-5R (codes MOE-MO5): 12 s transmitting, 48 s space spectators control (code S): continuous operation finish beacon (code MO): continuous operation Transmitting interval ends with a 2 s dash.		
Modulation:	A1A		
Frequency:	TX 1-5 (codes MOE-MO5):	3,520 MHz	keying speed: 50 PARIS
	spectators control (code S):	3,550 MHz	keying speed: 70 PARIS
	TX 1R-5R (codes MOE-MO5):	3,570 MHz	keying speed: 70 PARIS
	finish beacon (code MO):	3,600 MHz	keying speed: 50 PARIS

3,5 MHz FOXORING

Equipment:	MICROFOX HF (field transmitters), CONTEST2012 (finish beacon)		
RF power:	TX 1-5, 1R-5R (codes MOE-MO5):	10 mW	
	finish beacon (code MO):	1 W	
TX intervals:	All transmitters operate continuously.		
Modulation:	A1A, keying speed 50 PARIS (TX 1-5, finish beacon), 70 PARIS (TX 1R-5R)		
Antenna:	TX 1-5, 1R-5R (codes MOE-MO5):	approx. 30 cm vertical	
	finish beacon (code MO):	8 m vertical + 8 m single radial counterpoise	
Frequency:	TX 1, 1R, 2, 2R (codes MOE, MOI):	3,520 MHz	
	TX 3, 3R, 4, 4R (codes MOS, MOH):	3,550 MHz	
	TX 5, 5R (code MO5)	3,570 MHz	
	finish beacon (code MO):	3,600 MHz	

The RF field strength of transmitters 1-5 and 1R-5R is adjusted so that:

- » the transmitter **IS** audible at its nominal position marked on the map **AND** at the distance of 30 m from its real position.
- » the transmitter **IS NOT** audible at the distance of 250 m from its real position.

