



KNMI Radar data sheet 13-7-2017

Manufacturer	Selex ES
Type	Meteor 735CDP10 Pulsed dual-pol doppler weather radar
Location	Herwijnen: Latitude 51° 50' 12.8" N 51.83694 Longitude 5° 8' 17" E 5.138056 Den Helder: Latitude 52° 57' 09.8" N 52.952714 Longitude 4° 47' 26.8" E 4.790767
Tower Height	Den Helder: 52m Herwijnen: 22m
Transmitter	
Pulse generation	Magnetron
Polarization	Dual polarization
Modulator	Digitally controlled hard-switched, high power capacitors
Power	500 kW
Frequency:	Herwijnen: 5633.0 MHz Den Helder: 5625.0 MHz
Pulse repetition frequency	175 – 2400 Hz
Pulse width	Variable, from 0.5 – 3.5 µs
HF operating cycle	0.12%
Antenna	
Mechanical diameter	4.3 m
range	Elevation -2 deg to 90 deg Azimuth 360 deg
Beam width	<1 deg
Antenna Gain	>45 dBi
Cross polarization	< -30 dB, typically -40 dB
Sidelobe level	< -28 dB at 10 deg < -40 dB at 10 deg to 20 deg < -46 dB at 30 deg to 80 deg < -44 dB at 90 deg to 110 deg < -60 dB at 140 deg to 180 deg
Receiver	
Receiver type	Digital
Minimum Detectable Signal	-116 dBm,
Signal Processor	GDRX-SP