PLATH MISIGNAL PRODUCTS

INTERCEPTION CONFIDENCE · DIRECTION FINDING ASSURANCE



DFA 5080 Direction-finding antenna

The DFA 5080 is an active direction-finding antenna supporting the Watson Watt direction-finding method. It features high bearing accuracy for ground and sky waves across 0.5 to 30 MHz. This system is well-suited for semi-mobile deployments. Its sensitivity and bearing accuracy are comparable with stationary passive systems. This antenna can be configured with a second antenna array to improve precision and sensitivity across the entire frequency range.

TECHNICAL HIGHLIGHTS

- active high-precision antenna with low noise amplification
- mobile and lightweight antenna elements with ground network
- additional 8 antenna elements for precision and sensitivity improvement (optional)

CUSTOMER ADVANTAGES

 sensitivity and bearing accuracy are comparable with stationary passive systems

0.5 MHz - 30 MHz

- quick assembly time of less than 1 hour on almost any surface makes it well suited for semi-mobile use
- available either as a single circular array or as a dual concentric array for increased accuracy across the entire frequency range

Find out about our other products:

DIRECTION-FINDING	MONITORING	DIRECTION-FINDING	RADIO MONITORING	SIGNAL	CONTROL &
Receiver	RECEIVER	Antenna	Antenna	Distribution	Analysis software

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DFA 5080			
DF frequency range	0.5 MHz – 30 MHz		
Subrange VLF/LF/MF	n/a		
System sensitivity	n/a		
DF accuracy	n/a		
Subrange MF/HF	0.5 MHz – 30 MHz		
System sensitivity	1 MHz – 8 MHz typ. 1 μV/m 8 MHz – 30 MHz typ. 100 nV/m		
DF accuracy	≤1° RMS (single array. Ø 7m. 7 - 30 MHz) ≤2° RMS (single array. Ø 10m. 1 - 30 MHz) ≤1° RMS (single array. Ø 30m. 0.5 - 7 MHz) ≤1° RMS (dual array. Ø 7m + 40m. 0.5 - 30 MHz)		
Subrange VHF	n/a		
System sensitivity	n/a		
DF accuracy	n/a		
Subrange VHF/UHF	-		
System sensitivity	n/a		
DF accuracy	n/a		
Subrange UHF	-		
System sensitivity	n/a		
DF accuracy	n/a		
Subrange SHF	-		
System sensitivity	n/a		
DF accuracy	n/a		
DF method	Watson-Watt		
Antenna type	active		
Antenna configuration	U - Adcock		
Antenna elements	8/16		
Channels	3/5		
Polarisation	vertical		
Omnidirection monitoring Antenna/output	n/a		
BITE	via LAN (SNMP), self - test (web interface)		
Operating temperature	-40° to +55° C		
Storage temperature	-40° to +70° C		
Environmental protection	IP 55		
Maximum wind velocity (w/o icing)	180 km/h (50 m/s)		
Power consumption	100 V – 230 V AC (24 V on request) single array 100 W, dual array 200 W		
Weight	250 kg/350 kg		
Diameter	15 m – 45 m		
Height	2300 mm		
Required space	3000 m ²		
Installation	self supporting		
Set-up time	up to 30 min		

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