SPINNER Antenna Monitoring System

Engineered to Detect Failures Early and Safeguard Your Infrastructure

HIGH FREQUENCY PERFORMANCE WORLDWIDE www.spinner-group.com

Insulation

DM4S

ARC Detection

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SPINNER Antenna Monitoring System (AMS)

Radio and television broadcasters worldwide rely on their systems to deliver content to listeners and viewers. But though their infrastructure may be robust, it isn't invulnerable. Degradation can occur as a result of long-term use and environmental stress. Feeder cables can be damaged by strong winds, ice, or corrosion. Problems can also arise from improper installation, RF overloads, or lightning strikes.

Over the long term, these problems can cause the site to go off-air or even lead to fire, thus completely disabling the broadcast system. Operators therefore need a reliable early failure detection system that pinpoints problems with cables, splitters, or antennas at an early stage before they can cause more serious damage. The SPINNER Antenna Monitoring System (AMS) does all this and more.

The AMS is engineered to detect flaws in broadcast transmission systems and alert you to a problem before damage is done. It helps you stay on the air day in, day out.

This SPINNER solution monitors the entire antenna system, from patch panels across feeder cables all the way to the final dipoles. Recently patented measurement equipment detects even the slightest signs of moisture penetration, triggering an alarm both locally on warning lamps and remotely via an SNMP interface. All events are permanently recorded and can be reviewed from anywhere via a user-friendly web interface. AND AND CARDEN TRACT

Off-air time isn't just a technical issue. The financial cost of repairs and claims brought by content providers can also be huge. By helping you avoid these pitfalls, the AMS gives you enormous value for money.



Features

- Compact design
- Fast and easy installation
- All components housed at a single indoor location
- No invasive changes to the system
- No signal distortion, antenna pattern unaffected



Control Unit

Collects and analyzes the data from the AMS Detectors (see below), triggers warnings and alarms via relay contacts and SNMP and hosts a webserver for convenient configuration of the AMS system

AMS U-Link

AMS Detector, to be mounted on SPINNER Patch Panels



AMS Line Section

AMS Detector, to be mounted in any rigid line run

AMS Test Adaptor







Part Numbers

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	Basic Number	Product			AMS Detector			Version
					Size Type		Quantity	Version
	5 5 5	XX	X	С	X	X	X	X
	AMS Kit for Band II	0 2	0					
	AMS Kit for Band III	0 3	0					
	AMS Kit for Band IV/V	0 4	0					
			1 Page					
	AMS U-Links	AMS Line Section	on				-	
~	1 5/8" USL-D	1 5/8" EIA			1			
No. of the local division of the local divis	29.5-68 USL-D	3 1/8" EIA			3			
	43-98 USL-D	4 1/2" EIA			4			Sec. and
	52-120 USL				5			
A David and	-	6 1/8" EIA			7			
	AMS U-Link Interlock 1					1		
-	AMS U-Link Interlock 2				10	2		
	AMS Line Section				100	3		
	No. of AMS Detectors				1			
	To be completed by SPIN	INER						

RC Detection

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Interfaces

- Local signaling via LEDs and status relays
- Interlock relays for connecting to transmitter interlock loops
- Remote signaling via SNMP and web interface



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Technical Data

Control Unit

Main adaptor voltage	100 VAC to 240 VAC, 50 Hz to 60 Hz
Power Consumption, max.	50 W
Main Adaptor interface	IEC 60320 C14 (plug)
Interlock contacts interface	D-SUB 25 plug (10 potential-free relay contacts)
Signaling contacts interface	D-SUB 9 plug (3 potential-free relay contacts)
SNMP- and web-interface (LAN1)	RJ-45 (SNMPv2c)
Local web interface (LAN2)	RJ-45 (IE 9 or higher, Mozilla, Firefox, no Java needed)
Dimensions (L x W x H)	158 mm x 483 mm x 44 mm (19", 1RU)
Weight, ca.	1.6 kg

AMS U-Link

Interface		1 5/8" USL-D	29.5-68 USL-D	43-98 USL-D	52-120 USL
Contraction of the local division of the loc		87.5 to 108 MHz			
Frequency Range		174 to 254 MHz			
		470 to 800 MHz			
Proof voltage, max	100 MHz	7 kV	13 kV	19 kV	25 kV
Max average	100 MHz	20.0 kW	51.0 kW	98.0 kW	140.0 kW
nowor conceity	254 MHz	13.5 kW	34.0 kW	67.0 kW	116.0 kW
power capacity	800 MHz	7.0 kW	17.5 kW	35.0 kW	60.0 kW
The second second second	100 MHz	1.04	1.04	1.04	1.04
VSWR	254 MHz	1.06	1.06	1.06	1.06
	800 MHz	1.06	1.06	1.06	1.06
Interface to Control U	nit	D-SUB 15 socket	D-SUB 15 socket	D-SUB 15 socket	D-SUB 15 socket
Dimensions (L x W x H	H) mm	292 x 102 x 200	292 x 102 x 203	391 x 138 x 258	564 x 180 x 310
Weight, ca.		2.4 kg	2.5 kg	5.5 kg	11.2 kg

AMS Line Section

Interface	and the second second	1 5/8" EIA	3 1/8" EIA	4 1/2" EIA	6 1/8" EIA
ALL CARDON	-	87.5 to 108 MHz			
Frequency Range		174 to 254 MHz			
		470 to 800 MHz			
Proof voltage, max	100 MHz	7 kV	14 kV	19 kV	28 kV
Max average	100 MHz	20.0 kW	67.0 kW	112.0 kW	140.0 kW
nower eenegity	254 MHz	13.5 kW	44.0 kW	74.0 kW	116.0 kW
power capacity	800 MHz	7.0 kW	23.0 kW	38.0 kW	78.0 kW
	100 MHz	1.04	1.04	1.04	1.04
VSWR	254 MHz	1.06	1.06	1.06	1.06
	800 MHz	1.06	1.06	1.06	1.06
Interface to Control U	nit	D-SUB 15 socket	D-SUB 15 socket	D-SUB 15 socket	D-SUB 15 socket
Dimensions (L x W x H	H) mm	335 x 130 x 213	335 x 130 x 213	360 x 160 x 255	460 x 210 x 303
Weight, ca.		4.6 kg	4.6 kg	5.5 kg	10.7 kg



HIGH FREQUENCY PERFORMANCE WORLDWIDE

SPINNER designs and builds cutting-edge radio frequency systems, setting performance and longevity standards for others to follow. The company's track record of innovation dates back to 1946, and many of today's mainstream products are rooted in SPINNER inventions. Industry leaders continue to count on SPINNER's engineering excellence to drive down their costs of service and ownership with premium-quality, off-the-shelf products and custom solutions. Headquartered in Munich, Germany, the global frontrunner in RF components remains the first choice in simple-yet-smart RF solutions.

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