

# RCS Monitoring Family

HIGHEST PERFORMANCE REAL TIME MONITORING SYSTEM  
FOR FM NETWORKS

**FM** |||||



**RCS100** 1xRF inputs with the ability to analyze up to 4 FM stations simultaneously

## PROFESSIONAL MONITORING:

### RF ANALYSIS

- Real Time spectrum
- Two ways of operation: channel analysis (by default) or multiple channel polling
- Signal quality measurements
- Channel analysis: 2 channels analyzed simultaneously
- Multiple channel polling: up to 200 channels
- Alarm log (real time) and representation (time evolution)
- Storage Capacity 1 month of logs (aprox.)

### FM MEASUREMENTS

- RMS power
- Audio level
- Stereo pilot detection
- RDS decoding
- MPX Spectrum
- Channel naming based on RDS identifier
- L+R, L-R, L, R, RDS level
- Peak deviation
- AM depth
- MPX power
- Pilot level

### RDS ANALYSIS

- Analysis of all RDS groups
- Station name extraction (PS)
- Program type extraction (PTYN)
- Date/Time (CT) extraction
- RDS BLER, RDS groups monitoring

### AND MUCH MORE...

- 1 x 10/100/1000Mbps (Gigabit Ethernet)
- Full historical measurements with alarm analysis
- Automatic station detection and learning plan
- HTML5 control application
- SNMP v2c alarms
- 1 x Euroblock Connector enabled by alarm

## OPTIONAL FEATURES

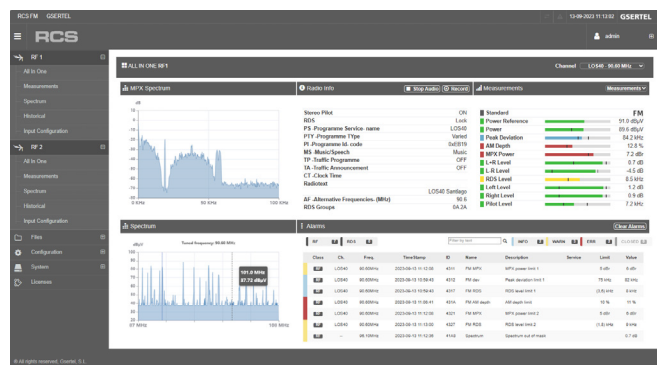
- ✓ Up to 4 channels analyzed simultaneously
- ✓ Dual Power
- ✓ Audio output
- ✓ Audio streaming
- ✓ Audio recording
- ✓ FM full band monitoring
- ✓ Station presence/absence detection
- ✓ Compatible with HD Radio Technology

# RCS family

ADVANCED REMOTE MONITORING SYSTEM FOR FM

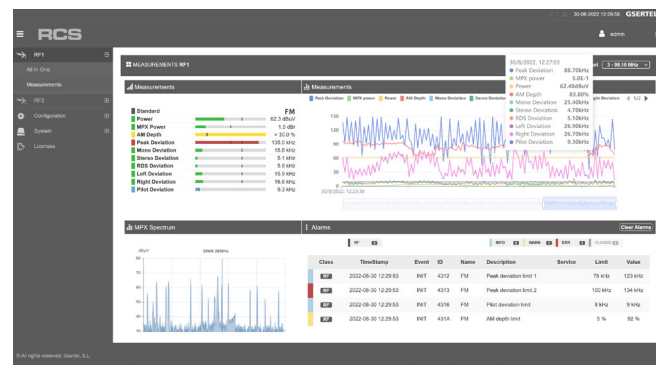


## MANAGEMENT SYSTEM



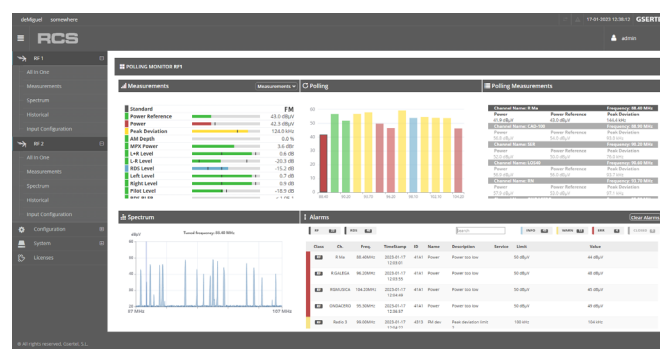
### ALL IN ONE

Shows an overview of the channel status on one screen.



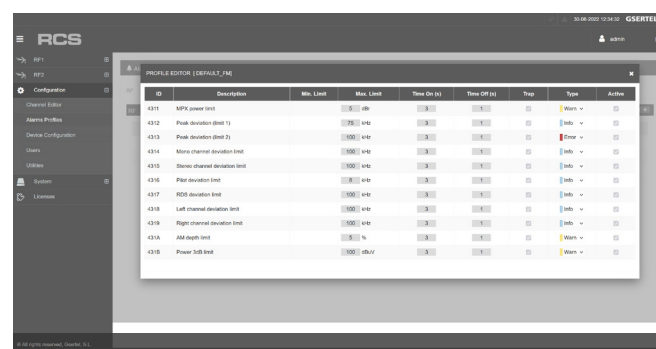
### RF MEASUREMENTS

The RF Measurements tab contains the evolutionary graph over time of all parameters. The time frame of the graph can be selected. When the mouse is over the graph, the values of all parameters at that point in time are displayed



### POLLING

Continuous measuring of user-defined stations



### ALARMS

The alarms profiles are user-configurable

## SPECIFICATIONS

### Standard

FM

### Inputs

RF: 1 x 50  $\Omega$  N connector  
RF Input Frequency:  
87 - 108MHz  
RF Input Power:  
-85 dBm to +10 dBm

### Outputs

1 x 10/100/1000Mbps (Gigabit Ethernet)  
1 X Euroblock connector  
1 x Jack connector for headphones

### RF Measurements

21 MHz Spectrum  
Power, C/N

### FM Measurements

RMS power  
Audio level (modulation, L/R, MPX, L+R, LR)  
Stereo pilot detection  
Peak deviation  
AM depth  
MPX power  
Pilot level

### FM Analysis

RDS decoding  
Channel naming based on RDS identifier (can be renamed)  
Audio recording (opt.)  
Audio streaming (opt.)  
Audio output (opt.)  
Station presence/absence detection (opt.)  
Compatible with HD Radio Technology

### Polling feature

Number of channels analyzed: 200  
Polling times config: From 1 to 300s

### RDS Analysis

Analysis of all RDS groups  
Station Name Extraction (PS)  
Program Type Extraction (PTYN)  
Date/Time (CT) Extraction

### Alarms

L/R audio max/min level  
Max/Min RDS carrier level  
Max/Min stereo carrier level  
Presence/absence detection of transmitters  
RDS data alarms  
Power low  
Power fading  
Two user-configurable alarms for each measurement

### Electrical Characteristics

Input 100 - 240 VAC 50-60Hz 1.4A  
-48 VDC (alternative option Ref. 902601)

### Mechanical characteristics

1U 19" rackable unit  
Size: 482mm W x 348mm D x 41mm H  
Working temperature: 0 a 40 °C  
Storage temperature.: 0 a 50 °C

### Interfaces

1 x USB 2.0  
1 X 10/100/1000 Mbps (Gigabit Ethernet)  
LCD Graphic display

### Control protocols

HTML and SNMP