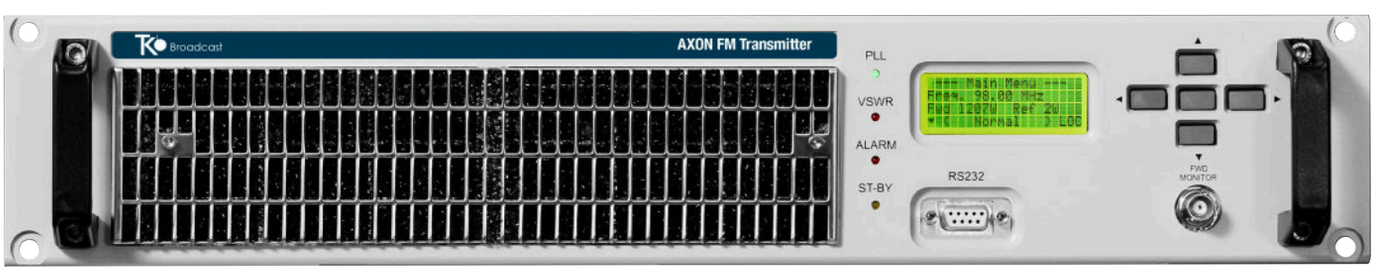


BROADCAST & SCIENCE EQUIPMENT

AXON 1200
Compact FM Transmitter

AXON 1200


Broadcast
AXON FM Transmitter
PLL
VSWR
ALARM
ST-BY
Main Menu
Freq. 98.00 MHz
Pwd 1202W Ref 2W
Mod Normal LOC
RS232
FWD
MONITOR

AXON Compact FM Transmitter

Output Power from 30W to 5000W

AXON delivers an unparalleled audio experience, reduces ownership costs and ensures easy maintenance

HIGHLIGHTS

For those who demand uncompromising sound quality and long-term reliability, the **AXON** is the definitive solution. It combines exceptional durability, energy efficiency, and advanced connectivity, ensuring peak performance even in the harshest environmental conditions.

Main Key:

- Output Power from 30W to 5000W
- Compact Architecture
- Extreme Robustness and Reliability
- Remote Access via HTML5 Web, TCP/IP, SNMP, Email, and Telegram
- Unmatched Audio Fidelity and Versatile Audio Inputs
- Exceptional efficiency and low power consumption
- Unified Spare Parts Across AXON Series
- Automatic Audio Input Changeover with Silence Detection

With **AXON**, you'll experience warm, clear, and smooth audio with low distortion, high signal-to-noise ratios, and excellent stereo separation giving your station a unique sound.

AXON takes care of FM modulation directly from your audio source, delivering up to 5000W of power with unmatched reliability.

Choose from a wide range of power options, from 30W to 5,000W, with a compact design that integrates both the exciter and amplifier in a single enclosure.

AXON excels both as a stand-alone unit and as an exciter for high-power transmitters, ensuring superior quality, reliability, and professional-grade features.

Perfect for a wide range of FM applications, including community, commercial, religious, educational, large national networks, public, and political FM radio transmitters.

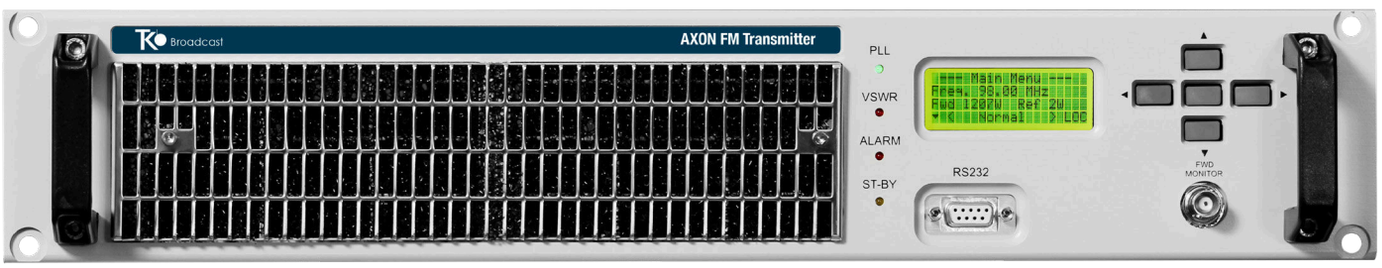
AXON: Where Sound and Reliability Meets Soul.

Highlights:

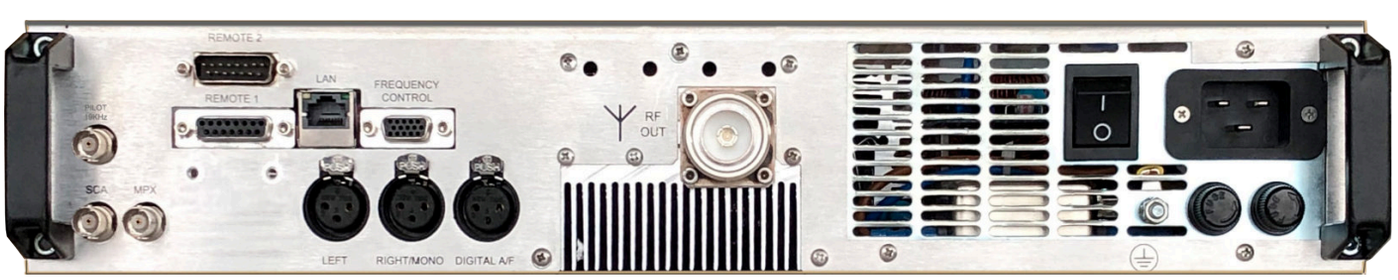
- High Signal-to-Noise Ratio Typically 85 dB, 65 dB stereo separation, ultra-low distortion of 0.03%.

- Versatile Audio Inputs: Supports MPX (Composite), Stereo, AES/EBU, Mono, and remotely programmable Dynamic RDS (remotely programmable). Includes optional automatic audio input backup and supports IP Streaming, Pen Drive, or Hard Disk for MP3 playback.
- Intelligent Soft Limiter: Maintains a maximum deviation of 75 kHz, ensuring high volume output without introducing distortion.
- Frequency Modulation Range: 87.5–108.0 MHz, options for Japan (JPN), Russia (OIRT 66–74 MHz), and other bands available.
- Efficiency: Achieves up to 88% RF and 70% overall efficiency, consistently maintained across all frequencies and power levels through intelligent control. Power consumption is further reduced thanks to the Energy-Saving Weekly Scheduler feature.
- Robust LDMOS 50 V with 6th Generation Planar Technology, offering VSWR tolerance greater than 65:1 at all phase angles, specifically designed for enhanced durability and ruggedness in FM and ISM applications.
- Spectral Purity: better than 84 dBc spurious and harmonics.
- Separate Components: Splitter, Combiner, Unbalanced Dummy Loads, Control Logic for easier maintenance.
- Passive Reserve Capability: A single CELL amplifier can serve as a backup.
- Double Exciter with Automatic Changeover Option
- Self-Protected Plug-In Power Supply: Wide voltage range (90–250 V) for enhanced reliability, includes AC mains filtering. Lightning and Overvoltage Protection, as well as Delayed Energization option.
- Touch Screen BRAIN WEB Control Unit on the transmitter, along with an LCD and keyboard on the front panel of the RF amplifiers, providing user-friendly and fast control.
- Durable Construction: Features an aluminium body, tropicalized PCBs, and an air filter for dust protection. The air-ducted architecture protects internal electronic components from direct airflow, preventing failures due to air corrosion.
- RF Planar Architecture ensures maximum reproducibility and consistency in RF amplifier quality. The Copper Carrier enhances heat dissipation and simplifies maintenance.
- Broadband Output Filter: Optimal spectral purity without tuning.
- Standards Compliance: Meets ETSI, CCIR, FCC requirements.

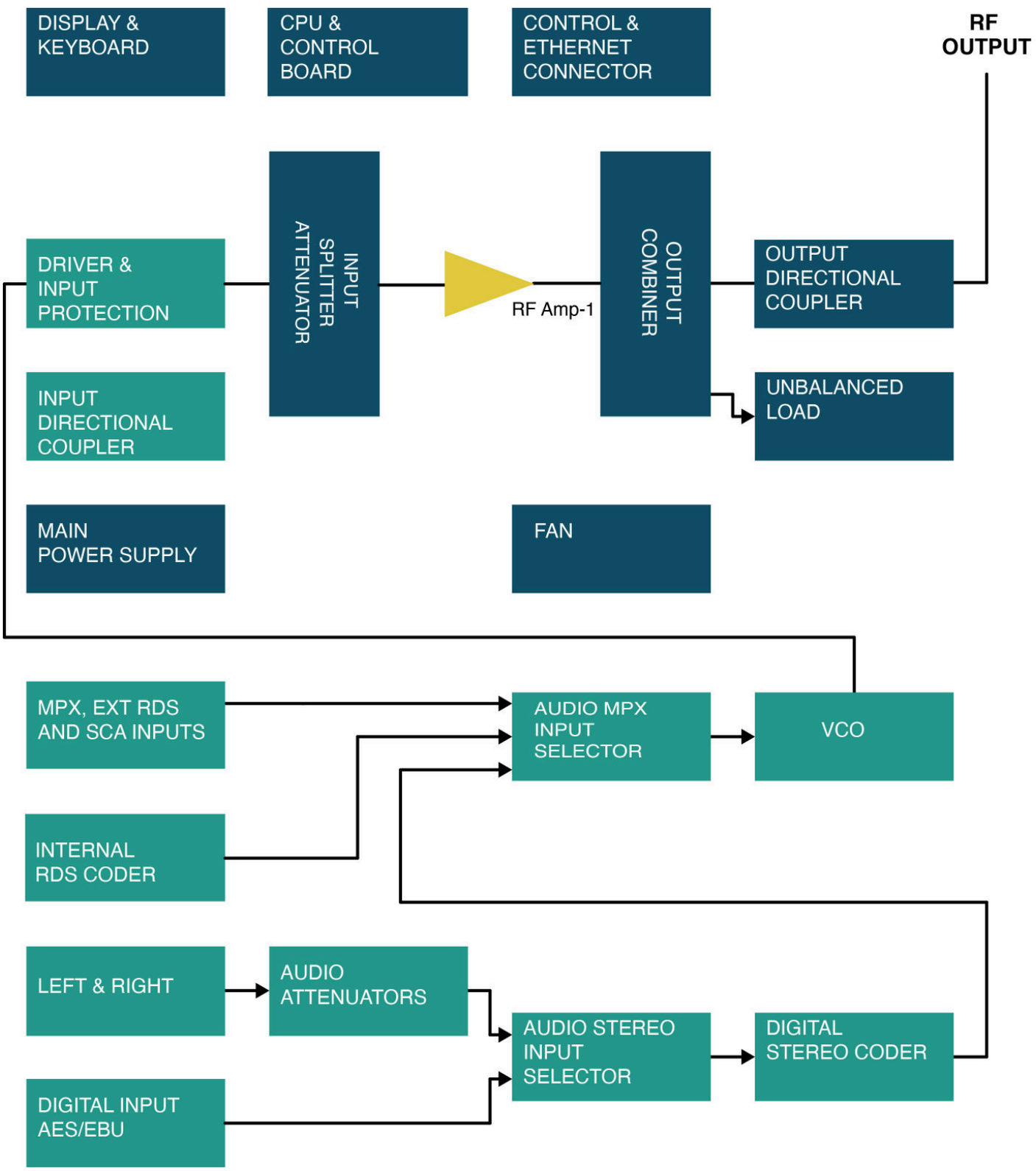
AXON 1200 FRONT VIEW



AXON 1200 BACK VIEW



AXON 1200 BLOCK DIAGRAM



AXON 1200
TECHNICHAL CHARACTERISTICS

POWER OUTPUT

- Output power: 1200W. Adjustable from 0W to maximum power.
- Maximu m output power:1320W.
- Output Connector: 7/16 type
- Overall efficiency: 70%
- RF Efficiency: 88%

ELECTRICAL and PHISICAL

- AC Input Power: 230/400 VAC ±15%, 50/60 HZ(+/- 3HZ) single phase or 3-phase+N
- Power Consumption: 1.714 W
- Power factor: 0.98
- Cooling: Forced air
- MTBF > 20.000 Hours

ENVIRONMENTAL

- Operating temperature: -10°C to +50°C.
- Max Operating Altitude: 4000 mt.
- Relative Humidity Range: 0 to 95% non condensing.
- Protection against Lightening, Dust and Corrosion

PHYSICAL DIMENSIONS

- Mounting: 2 unit cabinet
- Large= 484 mm
- Depth= 446 mm
- Height= 89 mm
- Weight: 15 Kg

PACKAGE DIMENSIONS

- Large= 640 mm
- Depth= 600 mm
- Height=270 mm
- Weight: 17 Kg

RADIOELECTRICS CHARACTERISTICS

- Frequency Range: 87.5 ÷ 108.00 MHz, Programmable in 10 KHz steps
- Range of adjustment from 100 to maximum power.
- On request 66 ÷ 74 MHz (OIRT), 76 ÷ 90 MHz (JPN) Bands.
- Frequency Stability: better than ±50Hz from -10 to +50°C
- Modulation capability max deviation: +/-150kHz.
- Frequency Control: Synthesizer *µ*processor control.
- Output Impedance: 50 ohm.
- Display: forward/reflection power and modulation indicator
- Type of Modulation: Direct frequency modulation of carrier frequency. F3E Stereo with Subcarrier and Mono.
- Lock in Time: Typ. 4 second.
- Off Lock Attenuation: ≥ -80 dBc.
- Modulation Mode: Mono, Stereo, Multiplex, SCA, RDS, Aux.
- Pre-emphasis: Flat(0)/50/75 *µ*s selectable from front panel.
- Asynchronous AM S/N Ratio: -70 dB below reference carrier. 100% AM modulation @ 400 Hz, without FM modulation.
- Synchronous AM S/N Ratio: -60 dB below reference carrier. 100% AM modulation@ 400 Hz with FM modulation ±75 KHz @ 400 Hz.
- RF Harmonics: Exceeds ETSI/EBU/CCIR/FCC requirements. better than 84 dbc
- RF Spurious: Exceeds ETSI/EBU/CCIR/FCC requirements. better than 84 dbc
- Output power on/off and adjustable from front panel and remotely.
- Overall Efficiency: 70%
- Monitor RF: -60 dBc, BNC connector
- VSWR: 1.5:1 Maximum with automatic fold-back at higher VSWR
-

MONAURAL OPERATION

- Audio Input Impedance: 600 ohm balanced, 15 Kohms unbalanced.
- Audio Input Level: -6 to +12 dBm. (Other range on request)
- Input Connector: XLR female.
- Audio Frequency Response: ±0.15 dB, 30 Hz to 15 KHz.
- Total Harmonic Distortion + Noise: 0.03% @ 400 Hz
- Intermodulation Distortion: 0.03%, 1 KHz/1.3 KHz, 1:1 ratio
- Transient Intermodulation Distortion: 0.03%, 2.96KHz square wave and 14 KHz sine wave.
- FM S/N Ratio: -89 dB RMS detector, -85 dB below ±75 KHz deviation, 50 *µ*s de-emphasis, weighted.

MULTIPLEX OPERATION

- Composite Input Impedance: 5 Kohm unbalanced.
- Composite Input Level: 3.5Vp-p for ±75KHz deviation.
- Input Connector: BNC female.
- Composite Amplitude Response: < ±0.15dB, 30Hz to 60kHz; < ±0.25dB above 60kHz
- Total Harmonic Distortion + Noise: 0.03% @ 400 Hz
- Intermodulation Distortion: 0.03%, 1 KHz/1.3 KHz, 1:1 ratio
- Transient Intermodulation Distortion: 0.03%, 2.96 KHz square wave and 14 KHz sine wave.
- FM S/N Ratio: -89 dB RMS detector, -85 dB below ±75 KHz deviation, 50 μs de-emphasis, weighted.

STEREO OPERATION

- Audio Input Impedance: 600 ohm balanced, 15 Kohm unbalanced.
- Audio Input Level: -12 to +12 dBm.
- Input Connector: XLR female.
- Audio Frequency Response: ±015 dB from 30 Hz to 15 KHz.
- Total Harmonic Distortion + Noise: 0,03% @ 400 Hz
- Intermodulation Distortion: 0,02%, 60Hz /7kHz 4:1 ratio +4dBu
- Transient Intermodulation Distortion: 0.03%, 2.96 KHz square wave and 14 KHz sine wave.
- FM S/N Ratio: -85 dB RMS detector, -82 dB below ±75 KHz deviation, 50 μs de-emphasis, weighted.
- Stereo Separation: 30÷80 Hz ≥ -53 dB, 80Hz÷15 KHz ≥ -65 dB (Typ. 70 dB).
- Crosstalk attenuation: Main to Sub -55 dB 30 Hz to 15 KHz
- 38 KHz Suppression: ≥ -70 dB (typ. -85 dB).
- Pilot Frequency: 19 KHz ± 1 Hz
- Phase Pilot: ± 2° adjustable
- Output Pilot: 1 Vpp., BNC female
- Audio Filter Attenuation: ≥ -55 dB @ 19 KHz, > -45 dB 20 KHz to 100 KHz.
- Modes: Stereo, Mono L+R, Mono L, Mono R.

AES/EBU OPERATION

- Input Level: -10dBfs to 0dBfs
- Input Connector: XLR female, optical TOS-LINK.
- Input Impedance: 110 ohm.
- Data Format: S/PDF,AES/EBU, IEC958, EIAJCP340/1201.
- D/A Converter: 24 bit.
- Sampling Frequency: from 32 to 96 KHz with automatic selection
- Stereo separation (crosstalk): ≥50dB,100Hz to 5kHz
- Amplitude response: ≤ ± 0.1dB, from 30Hz to 15kHz
- FM S/N Ratio: -85 dB below ±75 KHz deviation, 50 μs de-emphasis, weighted.

SCA, RDS, AUX OPERATION

- Input Connector: BNC female
- Input Impedance: 3 Kohm.
- Input Level: -3 to +6 dBm.
- Frequency Response: ±0.2 dB, 40 KHz to100 KHz.
- Input Connector: BNC female. Most SCA, RDS, AUX, performance parameters are determined primarily by the generator used.

AUXILIARY CONNECTIONS

- N°2 RS485: Serial Interface connector RJ45 back panel.
- Telemetry Interface: connector DB25F back panel.

ENVIRONMENTAL

- Operating temperature: -10°C to +50°C.
- Max Operating Altitude: 4000 mt.
- Relative Humidity Range: 0 to 95% non condensing.
- Protection against Lightening, Dust and Corrosion

OPTIONS AVAILABLE

Wide range of options available reduces the need of any additional equipment:

- High performances Stereo Encoder
- Digital AES/EBU
- Dynamic RDS Encoder with TMC Function
- AOIP Audio Over IP
- WEB TCP/IP and SNMP connectivity for remote Access
- Japanese (JPN), Russian (OIRT) and more bands are options available.
- Parallel Remote Control Connector Interface

FEATURES

User Interface

Provides immediate control and visualization of the transmitter's status.

Features:

- Direct Access to Main Commands: Smart navigation keys with ESC function.
- Status Indicators: LEDs provide immediate recognition of operational conditions.
- Intuitive Navigation: Easily browse all parameters.



Reliability and Robustness: Engineered for Durability

To ensure exceptional reliability and performance, all components of **AXON** are over-dimensioned to handle rigorous conditions.

Design and Construction:

- Air Filter: Provides high protection, easily cleanable or replaceable.
- Aluminum Construction: Balances minimal weight with maximum durability.
- Tropicalized PCB Boards and Wiring: Specialized coating safeguards against extreme conditions.

Component Over-Dimensioning:

- Heatsinks and Fans: Handle excessive heat and ensure adequate cooling.
- Dummy Loads and LDMOS RF Amplifiers: Exceed operational requirements and tolerate high VSWR.
- Power Supply: Provides 30% more power than required.

Integrated Protections:

- AC Mains Filtering
- Lightning Protection
- Overvoltage Spike Protection

Mechanical Construction

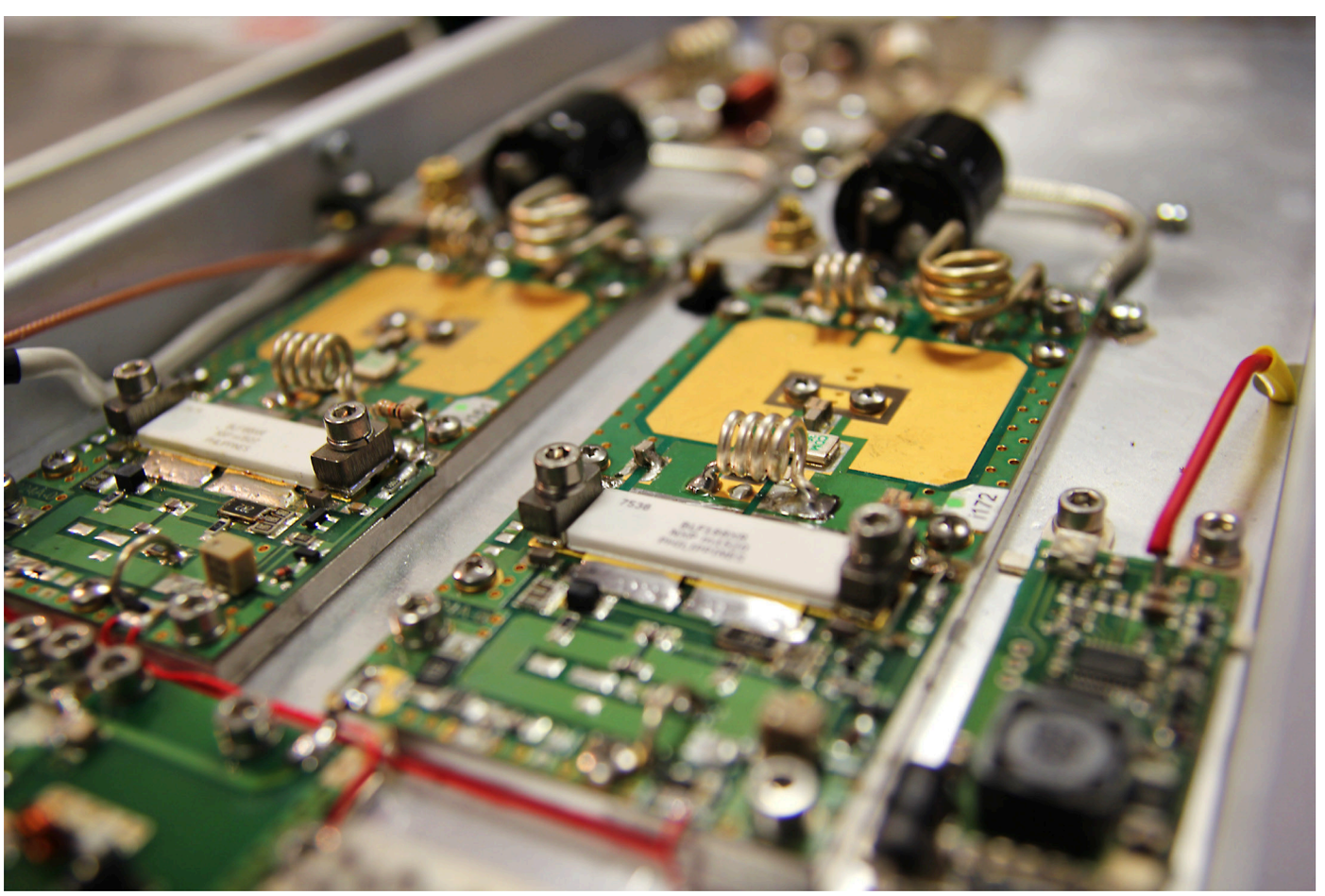
- Compact Design: Robust 2U aluminium rack mount.
- Optimized Airflow: Channels air through aluminium ducts, enhancing cooling efficiency.
- Efficient Heat Management: Dedicated heatsinks for all heat-producing components.
- Enhanced Durability: Protects electronic components from thermal stress.
- Heavy-Duty Fasteners: Simplifies maintenance with durable 5 mm screws.
- Aluminium Construction: Combines low weight with exceptional strength.

High Efficiency for Low Power Consumption

- Advanced 6th-generation LDMOS Technology: High efficiency and tolerance to VSWR up to 65:1, ensuring superior reliability and reduced energy consumption
- Intelligent Efficiency Algorithm: Controls power supply voltage and bias, maintaining optimal efficiency at any frequency and power level.

RF Planar Architecture

Ensures maximum reproducibility and consistency in RF amplifier quality. The Copper Carrier enhances heat dissipation and simplifies maintenance.



Protections

Transmitter Integrated Protection:

Safeguards against internal anomalies like VSWR issues, excessive temperature, or component malfunctions.

Site Protection Against Environmental Factors:

Shields against external factors like lightning or power supply fluctuations.

Transmitter Integrated Protections

AXON incorporates:

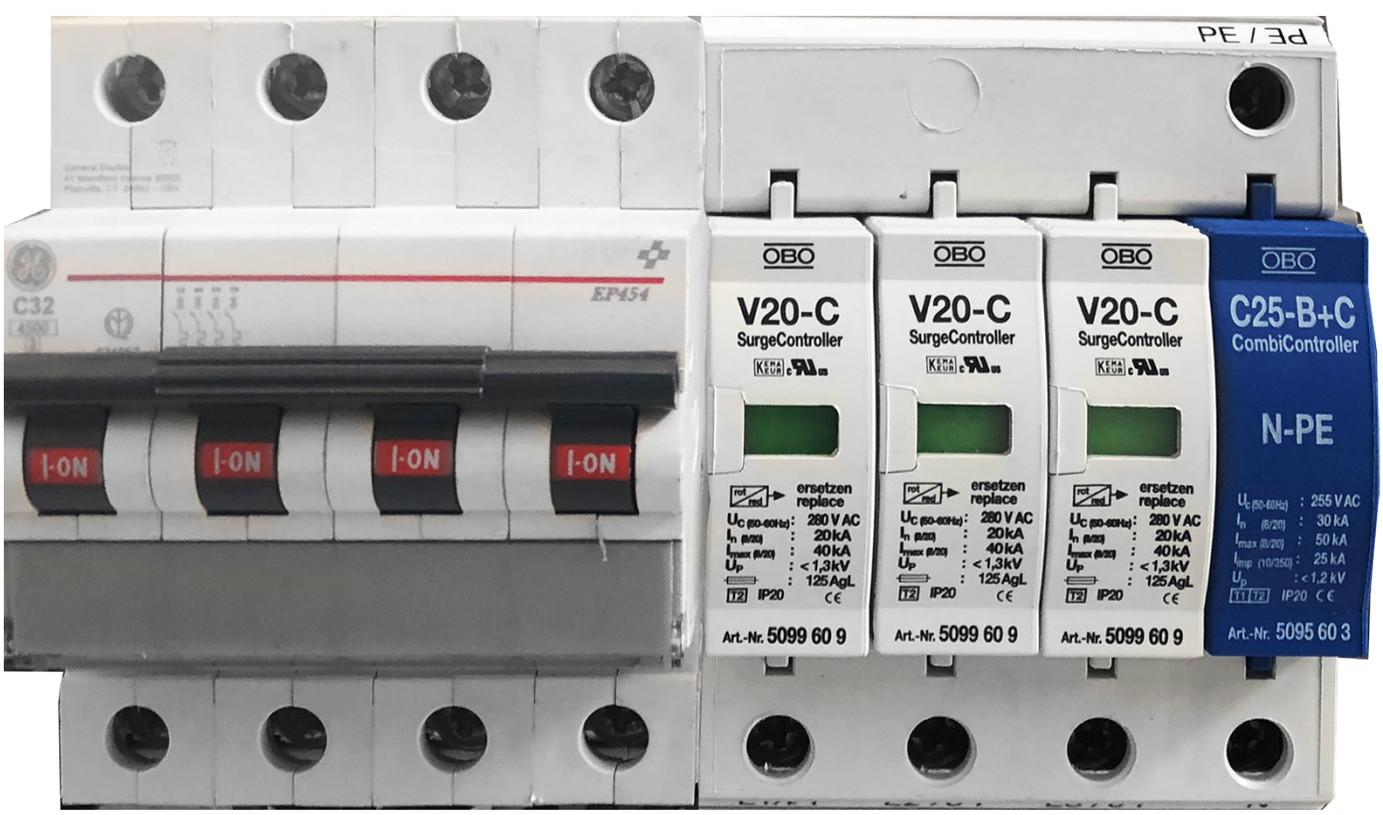
- Fast Hardware Protection: Immediate response within nanoseconds for critical scenarios.
- Soft Software Protection: Reduces output power without interrupting the broadcast under less severe conditions.

Protection Features:

- Environmental Over-Temperature Protection
- Cooling System Failure Detection
- Amplifier Breakdown Monitoring
- Over and Under AC Voltage Protection
- RF Coaxial Output Open or Short Circuit Protection

Site Protections: Overvoltage Protection and Delayed Energization (Optional)

Offers optional protection systems, including delayed energization and surge protectors, to guard against power interruptions and overvoltage.



N+1 and Backup Systems

- Versatile Standby Options: Supports various configurations.
- Streamlined Control: No additional control units required.
- N+1 Profiles Connector: Provides seven memory settings.
- Comprehensive Remote-Control Interface: Includes dry contact relay outputs and opto-isolated inputs.

Standards Compliance

- Rigorous Standards Adherence: Fully compliant with ETSI, CCIR, and FCC regulations.

Final Testing and Burn-In

- Final Test and Burn-In: Ensures maximum reliability through meticulous design and extensive testing.
- Rigorous Quality Assurance: Guarantees flawless operation by scrutinizing every detail.



Packaging

Designed with optimized size and weight for secure packaging, ensuring protection against shock and vibration during transport.

Shock and vibration during the transport can compromise the result of an installation.

Optimizing the CELL Amplifier dimension and weight allows a small and smart package Small weight and dimensions help to meet the most demanding transport conditions for: Hermetic temperature control vibration and Shock Isolation handling light packs aid the health of the operators.



Common Spare Parts Across the AXON Series

All models within the **AXON** series share the same spare parts, simplifying maintenance and inventory management. This commonality ensures that replacements are readily available and compatible across different configurations.

Common Spare Parts Include:

- CELL 2500 FM Amplifier Modules
- Power Supplies
- Fans
- Heatsinks
- Control Logic Boards
- Splitters
- Combiners
- Unbalanced Dummy Loads
- Touch Screen BRAIN Control Units
- Air Filters

REMOTE CONTROL

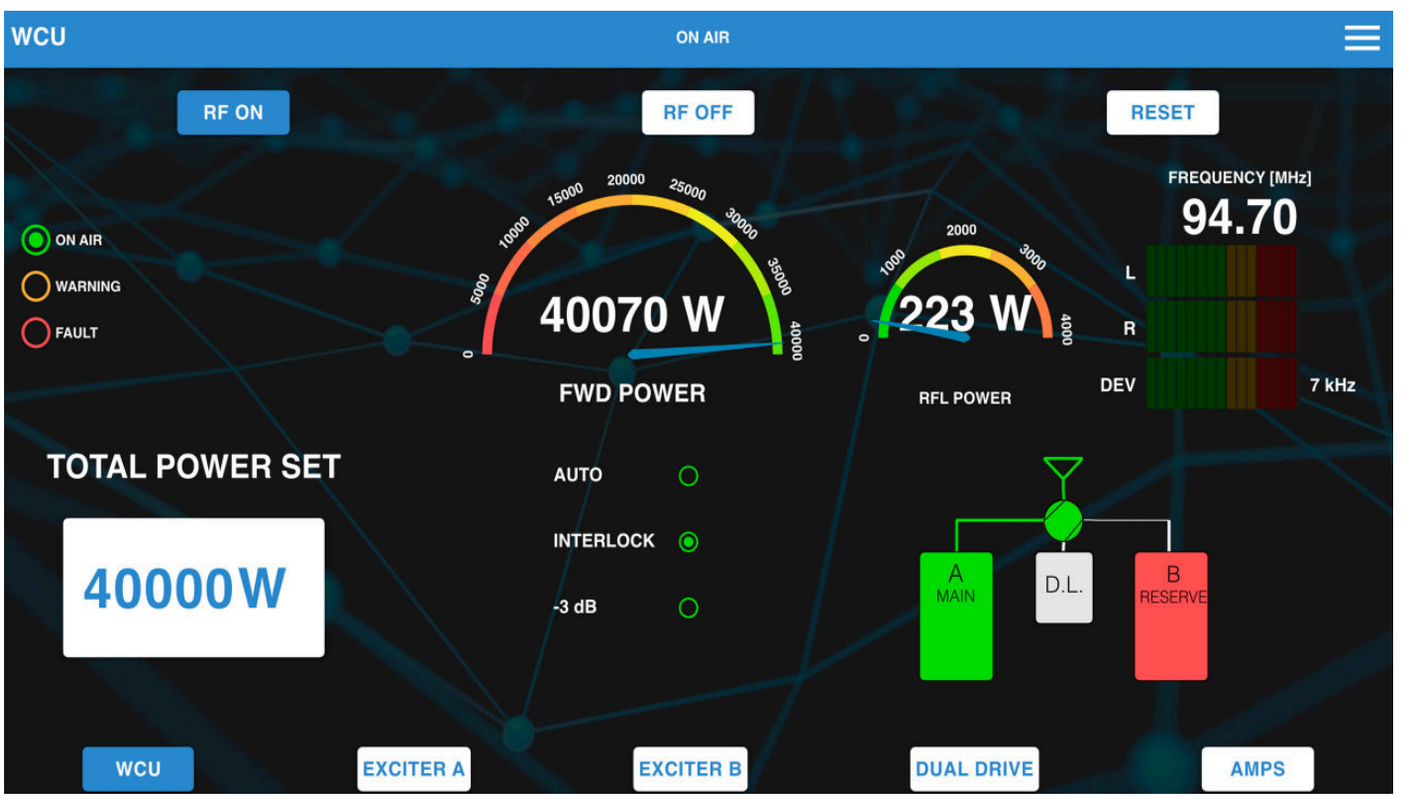
TCP/IP: Web and SNMP Access

Combining intuitive local control with advanced remote capabilities, this system ensures comprehensive supervision of all transmitter operations. It provides operators with unmatched control and diagnostic precision, guaranteeing optimal performance and swift fault resolution.

AXON features the most advanced web remote control on the market.

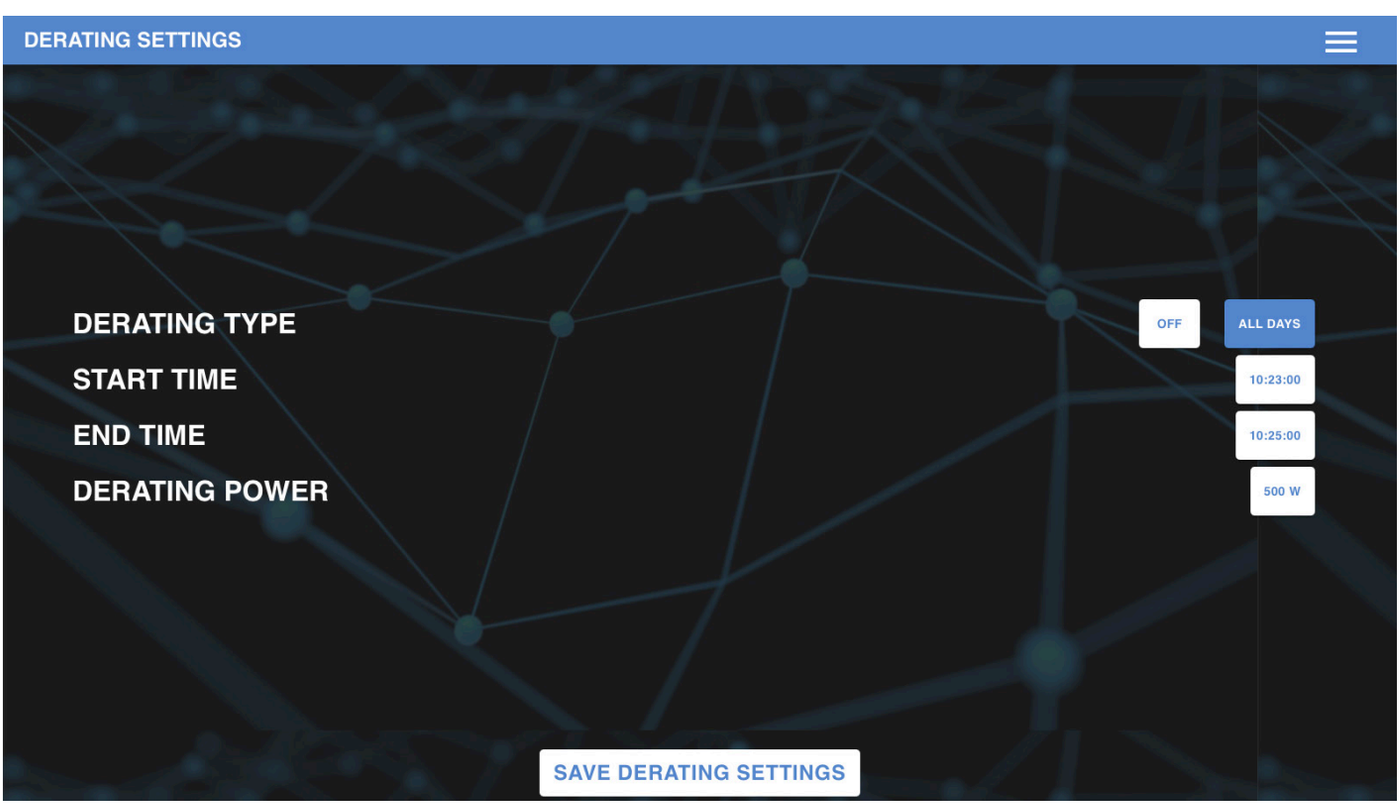
User Interface:

- Direct Internet Connection: No external boxes needed.
- Comprehensive Web Control: Adjust all main parameters remotely.
- Universal Graphics Interface: Compatible with PCs, smartphones, and tablets.
- Email Alerts and Reports: Programmable notifications for alarms or status reports.
- Web Log File: Stores up to 64,000 events, exportable in .txt format.
- Remote Upgradability and Secure Access
- SNMP v2c Support
- Telegram Remote control
- Advanced Diagnostics: Over 100 parameters monitored, including current, voltage, and temperatures.



Energy-Saving Scheduler for Power Derating

- Weekly Scheduler: Optimizes energy consumption with configurable events.
- Flexible Scheduling: Multiple events per day, tailored for each day of the week.



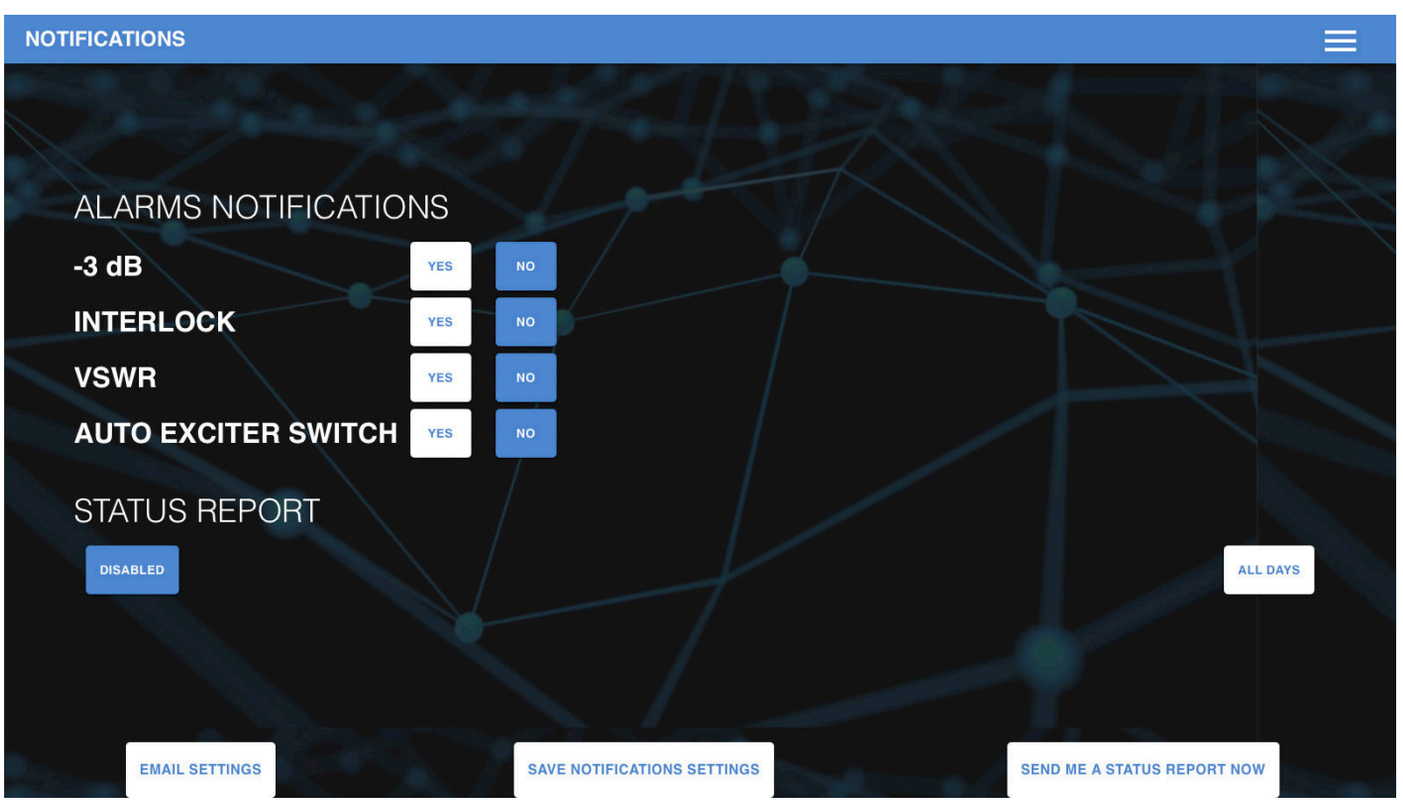
EMAIL and TELEGRAM Notifications

The remote control delivers real-time updates on the FM transmitter's status and alarms via e-mail and Telegram, enhancing management efficiency and minimizing downtime. Notifications can be customized to focus on specific status changes, with options for immediate alerts and periodic updates at set intervals.

Key Features:

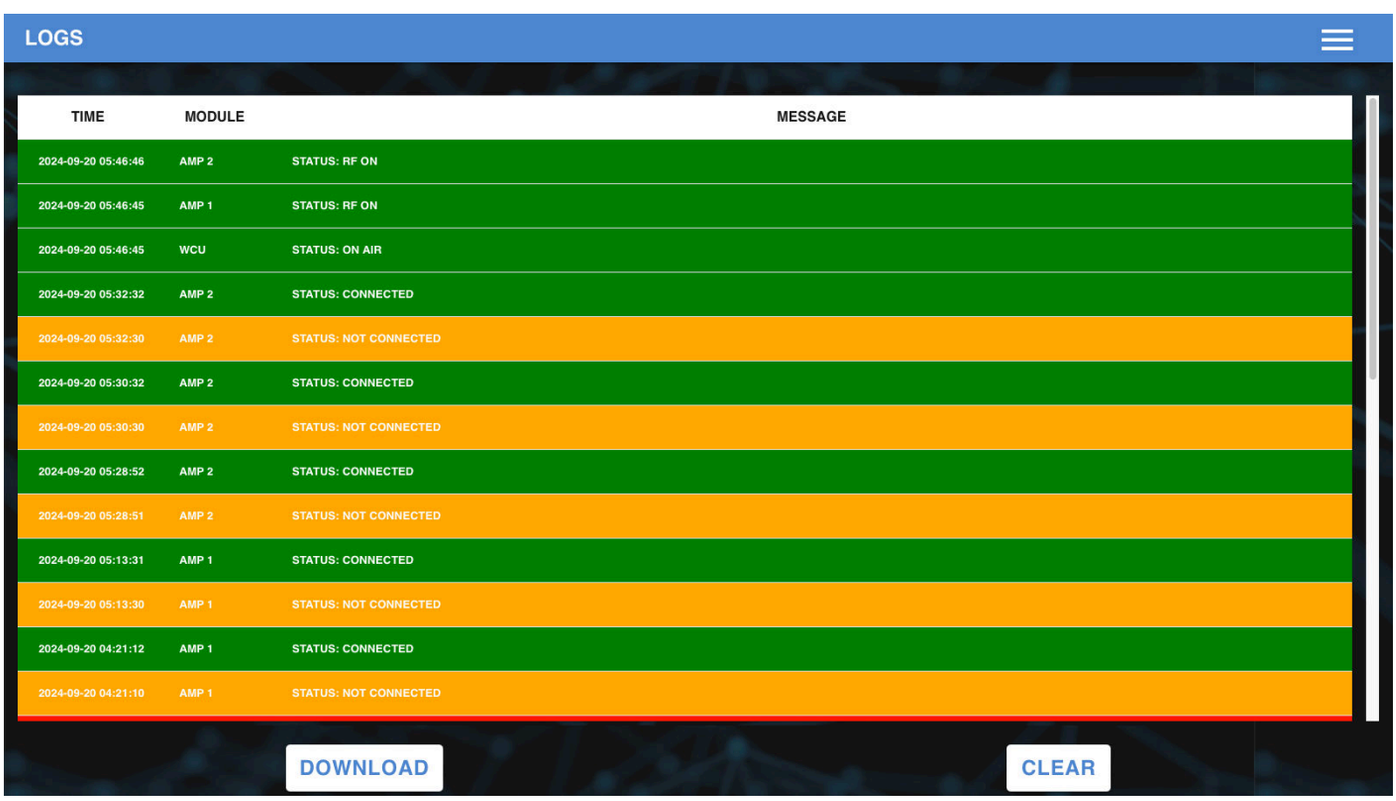
- Status Updates: Detailed notifications on operational parameters, including ON/OFF states, working frequency, audio modulation levels, and key metrics like power and temperature.
- Alarm Alerts: Instant notifications for faults or anomalies, such as low output power, VSWR issues, or exciter auto-switch events.
- Customizable Notifications: Flexible configuration to select which events trigger alerts.
- 24/7 Monitoring: Continuous operation ensures timely response to issues anytime.

This feature provides a reliable and adaptable solution for monitoring and maintaining transmitter performance.



LOG file

Here’s a refined version of your text with redundancies eliminated and improved readability:
A detailed log file records all transmitter status changes with precise date and time stamps. Events such as ON/OFF state transitions, operational frequency adjustments, audio modulation presence, connection status with RF modules and the exciter, and any component faults are documented. This log preserves the transmitter’s history to facilitate accurate monitoring of its operation and streamline troubleshooting in case of component failure.



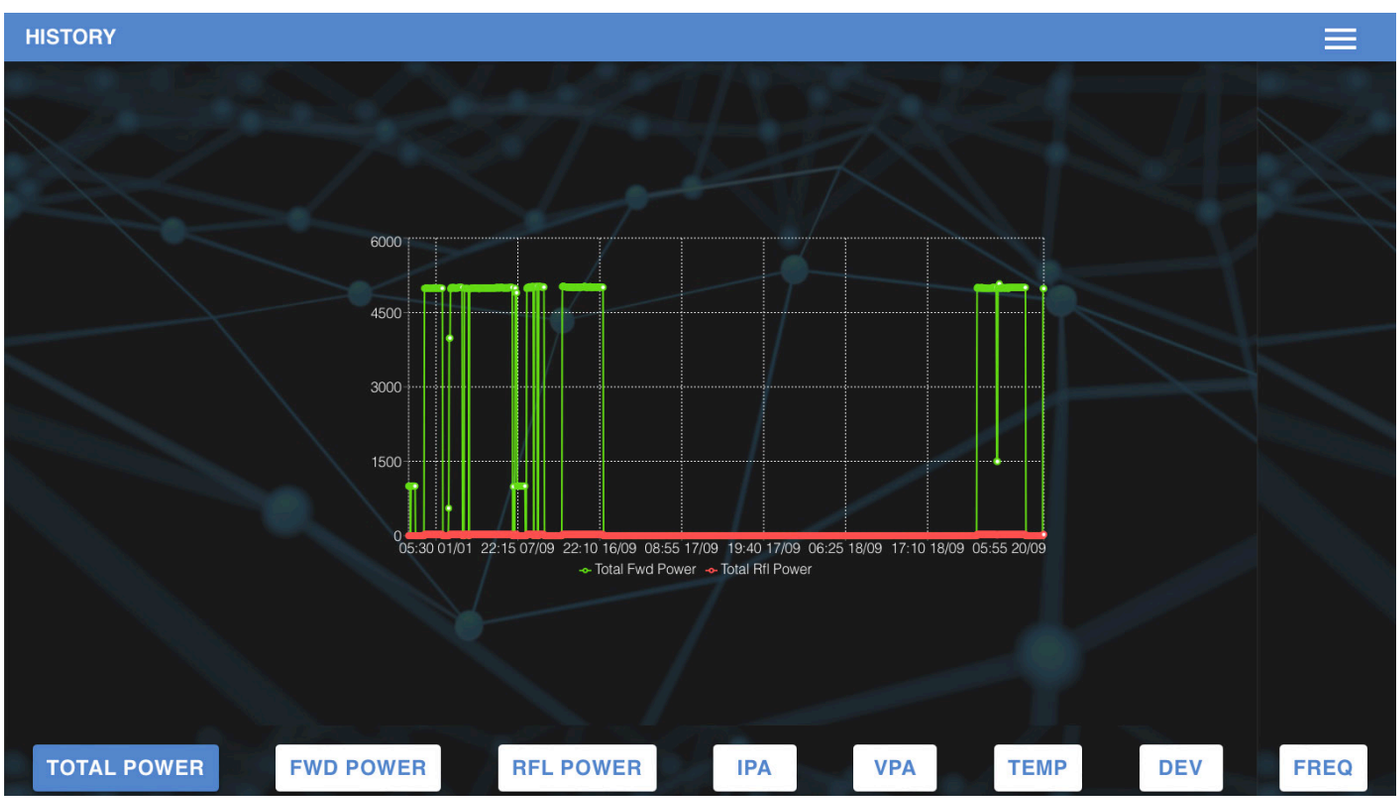
History Chart

TEKO transmitters offer a unique supervision feature that tracks working parameters over the past month using a first-in, first-out chart. This enables maintenance engineers to monitor real-time conditions and compare them with historical data.

This functionality is especially valuable for diagnosing faults at the hosting site by helping to identify potential causes. For example, a change in working temperature may indicate a cooling system issue, while the audio modulation graph can reveal STL link problems.

The monitored parameters include:

- Forward Power
- Reflected Power
- Voltage of each RF amplifier
- Current of each RF amplifier
- Temperature of each amplifier
- Audio Modulation
- Working Frequency



Dynamic RDS OPTION

Fully dynamic FM broadcast RDS encoder with independent communication port
Control interface based on ASCII commands and UECP protocol
Text features include dynamic PS, parsing, scrolling, tagging, fixed messages, scheduling and HTTP reading
Excellent compatibility with broadcast automation systems
Control software includes powerful Windows GUI application
Supports control from external PHP/ASP scripts
Easy and fast set-up
Excellent spectral purity, direct digital RDS signal synthesis; compliant with EN 50067 / EN 62106
Two switchable program sets (with optional DSN and PSN setting)
Internal real-time clock incl. backup battery
No special 19 kHz input needed - pilot tone internally recovered from MPX signal using digital PLL

RDS services directly supported by the unit

PI	Program Identification
PS	Program Service
PTY	Program Type
TP	Traffic Program
TA	Traffic Announcemen
AF	Alternative Frequencies
PTYN	Program Type Name
DI	Decoder Identification
EON	Enhanced Other Networks information
RT	Radiotext
RT+	Radiotext Plus
M/S	Music/Speech
CT	Clock-Time and Date
PIN	Program-Item Number
ECC	Extended Country Code
LIC	Language Identification Code
TMC	Traffic Message Channel
UDG	User Defined Groups

DYNAMIC RDS OPTION

PS - Program service name

This is the label of the program service consisting of not more than eight alphanumeric characters, which is displayed by RDS receivers in order to inform the listener what program service is being broadcast by the station to which the receiver is tuned.

RT - Radiotext

This refers to text transmissions, primarily addressed to consumer home receivers, which would be equipped with suitable display facilities. The text can be up to 64 characters long. Some receivers do not support the Radiotext service.
An additional feature of the Radiotext is the Text A/B flag. Two cases occur: If the receiver detects a change in the flag, then the whole radiotext display should be cleared and the newly received radiotext message segments should be written into the display. If the receiver detects no change in the flag, then the received text segments or characters should be written into the existing displayed message and those segments or characters for which no update is received should be left unchanged. For static RT (i.e. RT is not updated and shows only a general information like studio's phone number), the A/B flag has no meaning.

RT+ on iPodClick here for summarization of national character coding issues

RT+ - Radiotext Plus

The RT+ is designed to let the listener take additional benefit from the Radiotext service by enabling receivers to offer direct access to specific elements of Radiotext. Typically the RT+ feature supports song artist and song title elements. These elements anyway carried in the Radiotext, are identified by their class code, length and location within the Radiotext. The receiver must be equipped with the RT+ function (also called "tagging") to take advantage of this feature.

Click here for information about how to send RT+ tagging with our RDS encoders

AF - Alternative frequencies list

The list of alternative frequencies gives information on the various transmitters broadcasting the same program in the same or adjacent reception areas. This facility is particularly useful in the case of car and portable radios.
When the PI code indicates local coverage-area, i.e. only one frequency is used, AF list may contain this frequency.

PI - Program identification

This information consists of a code enabling the receiver to distinguish between countries, areas in which the same program is transmitted, and the identification of the program itself. The code is not intended for direct display and is assigned to each individual radio program, to enable it to be

distinguished from all other programs. One important application of this information would be to enable the receiver to search automatically for an alternative frequency in case of bad reception of the program to which the receiver is tuned; the criteria for the change-over to the new frequency would be the presence of a better signal having the same PI code.
The PI code consists of four characters. The first two characters have special meaning, second two are used to clearly identify different stations.
The first character identifies country. The second character identifies program type in terms of area coverage:
0 - Local (Local program transmitted via a single transmitter only during the whole transmitting time.)
1 - International (The same program is also transmitted in other countries.)
2 - National (The same program is transmitted throughout the country.)
3 - Supra-regional (The same program is transmitted throughout a large part of the country.)
4 to F - Regional (The program is available only in one location or region over one or more frequencies, and there exists no definition of its frontiers.)

ECC - Extended Country Code

It helps the receiver to recognise the country in cooperation with the PI code. The first most significant bits of the PI code carry the RDS country code. The four bit coding structure only permits the definition of 15 different codes, 1 to F (hex). Since there are much more countries to be identified, some countries have to share the same code which does not permit unique identification. The ECC byte determines the country unambigouesly.

Click here to find ECC and first PI digit for your country!

PTY - Program type

This is an identification number to be transmitted with each program item and which is intended to specify the current Program type within 31 possibilities. This code could be used for search tuning. The code will, moreover, enable suitable receivers and recorders to be pre-set to respond only to program items of the desired type. The last number, i.e. 31, is reserved for an alarm identification which is intended to switch on the audio signal when a receiver is operated in a waiting reception mode.

TA - Traffic announcement identification

This is an on/off switching signal to indicate when a traffic announcement is on air. The signal could be used in receivers to:
a) switch automatically from any audio mode to the traffic announcement;
b) switch on the traffic announcement automatically when the receiver is in a waiting reception mode and the audio signal is muted;
c) switch from a program to another one carrying a traffic announcement.
After the end of the traffic announcement the initial operating mode will be restored.

TP - Traffic program identification

This is a flag to indicate that the tuned program carries traffic announcements. The TP flag must only be set on programs which dynamically switch on the TA identification during traffic announcements. The signal shall be taken into account during automatic search tuning, so I recommend to turn this flag on even though you don't transmit any traffic announcements.

DI - Decoder identification

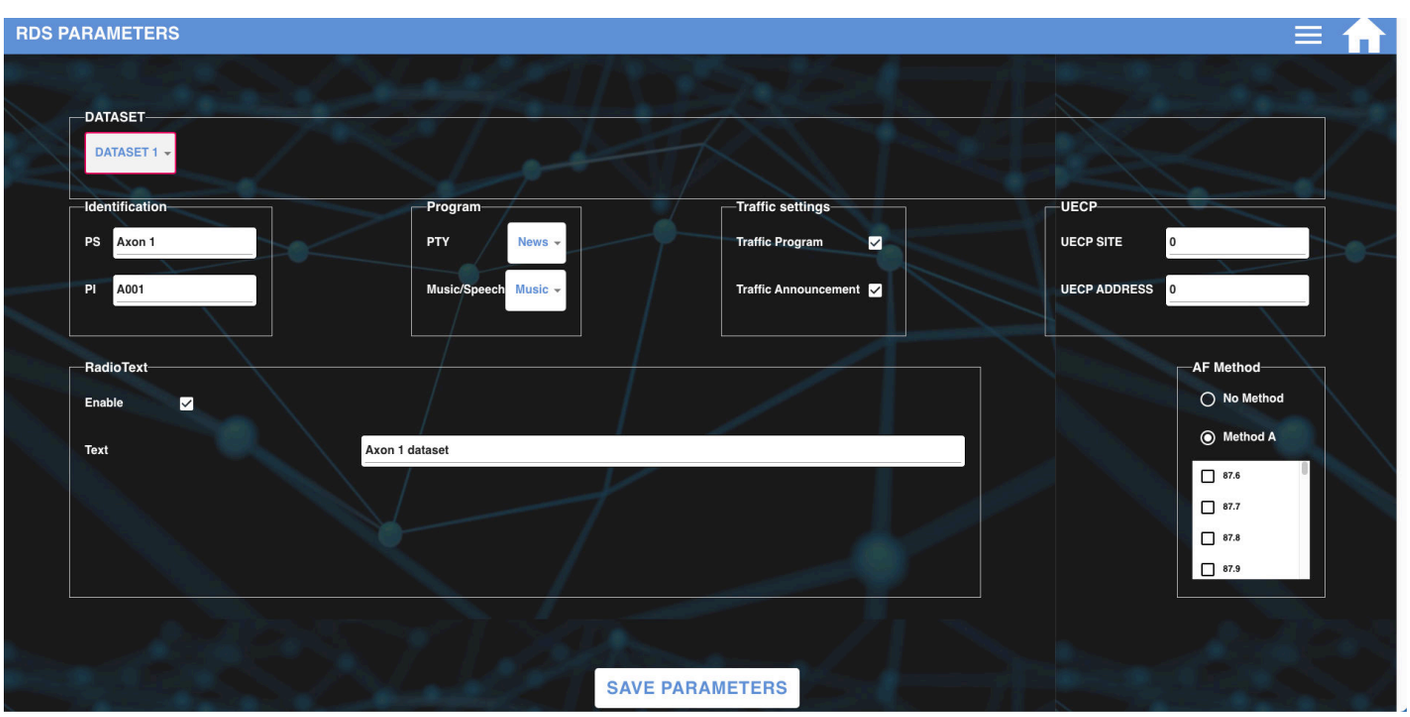
Indicates which possible operating mode is appropriate for use with the broadcast audio. Many receivers ignore this service completely. For others, only the Stereo and Dynamic PTY flags have a sense. Set the Dynamic PTY if your PTY changes dynamically in dependence on actual program content. Flags Artificial head and Compressed are archaic and should be kept cleared unless you have a real reason for their use.

M/S - Music/speech switch

This is a two-state signal to provide information on whether music or speech is being broadcast. The signal would permit receivers to be equipped with two separate volume controls, one for music and one for speech, so that the listener could adjust the balance between them to suit his individual listening habits.

CT - Clock-Time and Date

Time and date codes should use Coordinated Universal Time and Modified Julian Day. The listener, however, will not use this information directly and the conversion to local time and date will be made in the receiver's circuitry. CT is used as time stamp by various RDS applications and thus it must be accurate.



EON - Enhanced Other Networks information

This feature can be used to update the information stored in a receiver about program services other than the one received. Alternative frequencies, the PS name, Traffic Program and Traffic Announcement identification as well as Program Type and Program Item Number information can be transmitted for each other service. The relation to the corresponding program is established by means of the relevant Program Identification.

IH - In House Applications

This refers to data to be decoded only by the operator. Some examples noted are identification of transmission origin, remote switching of networks and paging of staff. The applications of coding may be decided by each operator itself.

PIN - Program-Item Number

The code should enable receivers and recorders designed to make use of this feature to respond to the particular program item(s) that the user has preselected. Use is made of the scheduled program time, to which is added the day of the month. The transmitted Program Item Number code will be the scheduled broadcast start time and day of month as published by the broadcaster.

PTYN - Program Type Name

The PTYN feature is used to further describe current PTY. PTYN permits the display of a more specific PTY description that the broadcaster can freely decide (e.g. PTY=4: Sport and PTYN: Football). The PTYN is not intended to change the default eight characters of PTY which will be used during search or wait modes, but only to show in detail the program type once tuned to a program. If the broadcaster is satisfied with a default PTY name, it is not necessary to use additional data capacity for PTYN.

TDC - Transparent Data Channels

The transparent data channels consist of 32 channels which may be used to send any type of data.

TK SRGP

Over voltage, Lightning and Surge Protection for Broadcast applications



BEST CLASS
PROTECTION OF YOUR EQUIPMENT

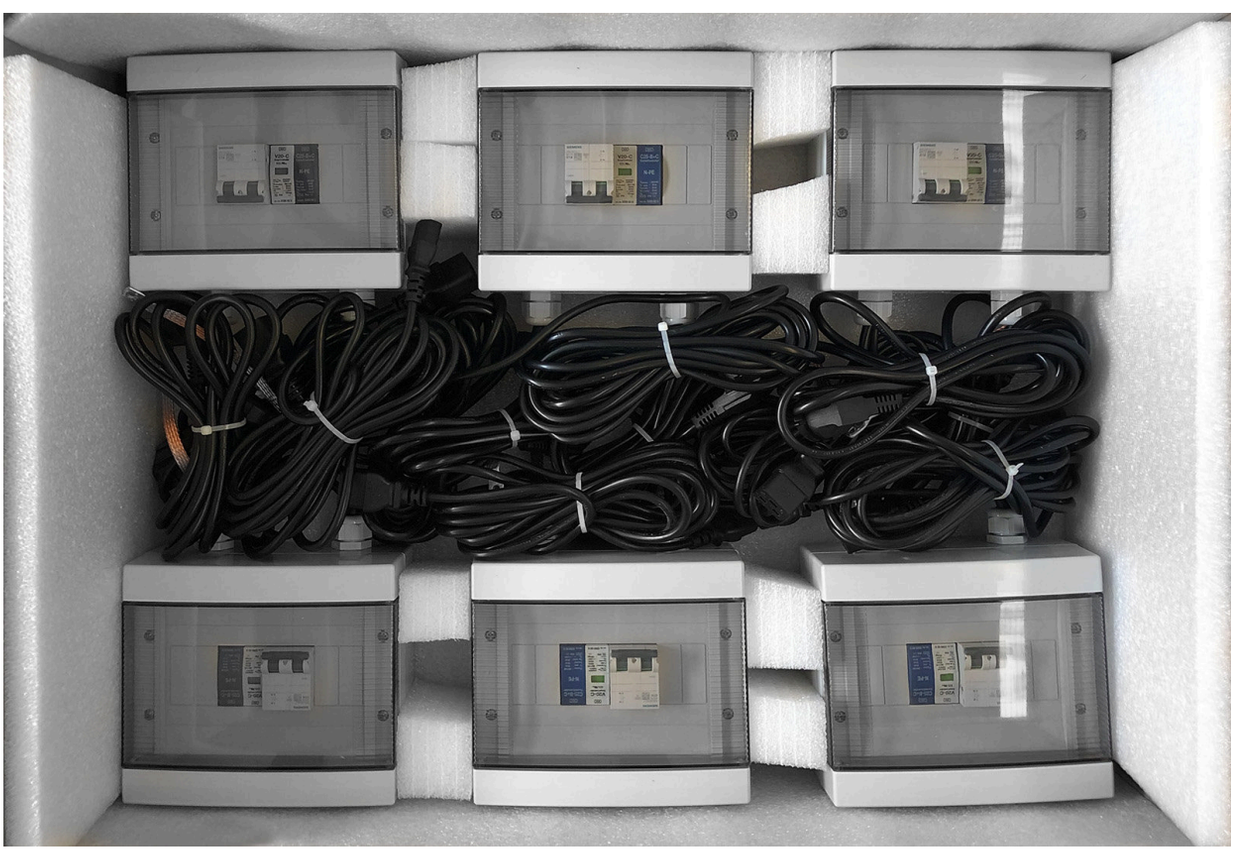
TK SRGP

Type 2 surge arresters (class C) according to EN 61643-11 (VDE 0675, part 6-11).

With the new Multibase base with multiple connection terminal
Complete unit, including base and top, assembled and ready to connect
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Suitable for TN network systems
Plug-in protection module, protection module detachable from the base without the need for tools
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SET OF SIX SINGLE PHASE VERSION



SINGLE PHASEVERSION



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