The SDT ARK-1 is an ATSC Digital transmitter that features Digital Linear and Not Linear Pre-correction.

Moreover, it uses the very advanced SWDT® (Software Defined Transmitters) technology, typical of this series of products, which allows a complete control of the system through various ways: remotely, using a clean contact; via SNMP commands and via TCP/IP, using the Web graphic interface.

To enable the transmission of MH mode can be done simply setting up the PID of MHE packets.

An innovative firmware allows zero error signals processing thanks to internal 32 bit architecture.

Functional interfaces are available for total remote control of the apparatus by means of serial protocols or TCP/IP ports. Thanks > SDT 200 ARK-1to the internal Web server the apparatus can be easily monitored and configured using a LAN connection and a standard Web browser. Moreover, the built-in SNMP server allows performing all types of automated remote control.

Main Features

• Compliant A153 ATSC-mh Standard
• UHF/VHF fully agile Transmitter
• Integrated GPS Receiver.
• Integrated SNMP management with events store.
• Integrated GBE interface.
• Output Power remotely adjustable via SNMP with high dynamics, in step of 0.1 dB.
• Soft-start Circuit.
• Adaptive digital linear pre-correction.
• Digital non linear pre-correction with automatic curves loading for each standard, channel and power levels.
• Wide Range Power Supply 90–264 V AC in fuse-free configuration (SW Standby Switch).
• 12 (with power limitations), 24, 48 V DC Optional.
• Typical MER > 36 dB at all power levels and in all channels.
• Quick-acting protection circuits against over power and direct/reflected power.
• Protection against reflected power with automatic fold-back
• Compact Design: 19” x 1 unit, depth 400 mm
• Input available: ASI, SSI, MPEG over IP

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Band</th>
<th>Working class</th>
<th>Dimensions</th>
<th>Digital output power (rms) without filter ATSC/ATSC-MH</th>
<th>Nominal analog output power (ps) with dual mode option</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDT 200UB ARK-1</td>
<td>UHF</td>
<td>A</td>
<td>1 RU (19” rack), 400 mm</td>
<td>8 W class A</td>
<td>10 W</td>
</tr>
<tr>
<td>SDT 200TB ARK-1</td>
<td>VHF (III)</td>
<td>A</td>
<td>1 RU (19” rack), 400 mm</td>
<td>8 W class A</td>
<td>10 W</td>
</tr>
<tr>
<td>SDT 200FB ARK-1</td>
<td>VHF (I)</td>
<td>A</td>
<td>1 RU (19” rack), 400 mm</td>
<td>8 W class A</td>
<td>10 W</td>
</tr>
</tbody>
</table>

Specifications and characteristics are subject to change without notice.