

# SFC0006A

This device contains a microcontroller programmed in C language that enables automatic functioning of the system and interfacing with the TWT through remote connection (RS 422).

The Soft-Fail Controller can manage the RF Soft-Fail to guarantee automatic redundancy and power without interrupting the TX signal.

Soft-Fail Controller

Model Type: **SFC0006A**



©Antech S.p.A., 2007 The copyright of this document is property of Antech S.p.A.. This document is issued in confidence for the exclusive purpose for which it is supplied. It must not be reproduced, in whole or in part, or used for tendering or manufacturing purposes, except under an agreement or with the prior consent in writing of Antech S.p.A.. For service assistance please contact: Antech S.p.A. Via V.E. Orlando, 7 95037 S.G. La Punta (Catania) Italy Tel. +39 095 7417400 Fax +39 095 7513799 E-mail info@antech.it

**Soft-Fail Controller**  
**SFC0006A**

# Soft-Fail Controller

## Soft-Fail Specification

|                   |  |
|-------------------|--|
| Frequency range   | 13.0-14.5 GHz  |
| Power handling    | 2KW/chains   |
| Return loss       | 25dB min   |
| Insertion loss    | 0.35dB max   |
| Isolation         | 25dB min (combined)<br>40dB min (1:1 mode)   |
| Switching time    | 3 styp   |
| RF input          | 50 Ohm N female connector (IN TWT1 and IN TWT2)<br>50 Ohm N female connector (OUT UP/C)        |
| RF output         | PBR 120 (OUT TWT1 and OUT TWT2)<br>PBR 120 (IN Antenna, OUT Load 1 and<br>OUT Load 2 combined) |
| RF monitor        | 50dB coupling factor through N female 50 Ohm connector   |
| Weight            | 4,5Kg  |
| Temperature       | 0°C to 50°C operating<br>-40°C to 85°C storage   |
| Relative humidity | 0 to 90% operating<br>0 to 95% storage   |

## Controller Specification

|                            |   |
|----------------------------|---|
| Primary power requirements | IEC 320 (230V AC $\pm$ 10%, 50Hz to 60Hz, 80VA max) |
| Switches command           | Through MIL 6poles Male connectors                  |
| Alarm interface            | Through DB9 Female connectors for TWT1 and TWT2     |
| Remote interface           | Through DB9 Female connectors for TWT1 and TWT2     |
| Mechanical construction    | 1U 19" standard rack, 350mm deep                    |
| Weight                     | 3Kg   |
| Temperature                | 0°C to 50°C operating<br>-40°C to 85°C storage      |
| Relative humidity          | 0 to 90% operating<br>0 to 95% storage              |
| MTBF                       | 150000 h  |
| EMC                        | EEC 89/336  |

Model Type: **SFC0006A**

### Antech Spa

San Giovanni La Punta  
Catania (Italy)  
Tel/fax: +39 095 741.74.00  
+39 095 751.37.99  
www.antech.it  
info@antech.it

ETNATEL: www.etnatel.it  
info@etnatel.it.

**Soft-Fail Controller**  
**SFC0006A**