

## Westica MFS2000 Protection Switch



### Overview

Now being installed in networks worldwide, the MFS2000 is a multi-function route protection switch, which provides either automatic or manual switching between two data sources. Designed initially to work with Westica's advanced range of point-to-point radio products, the MFS2000 can also be configured to provide protection for two data sources (e.g. X.21 or G.703 user equipment) irrespective of transmission media.

Switching from the "A" source to the "B" source (or vice versa) takes place when one of a number of user-designated fault conditions occurs in the "A" source equipment. These fault conditions can then be taken from the source equipment and connected to the Alarm port on the MFS2000.

The main benefits to network planners are:

- Automatic or manual switching capability in a small simple to install unit
- Cost-effective solution to provide route diversity for a wide-range of data interfaces over radio, fibre or copper
- Switching for up to 20 transmission lines
- Allows transmission traffic to flow A\_A, A\_B, B\_A, B\_B
- Simple LED displays clearly indicate alarm and status information for the switch.

### Optimum Solution

The Westica MFS2000 effectively provides a cost-effective solution to providing system or network diversity in a simple to use package. The unit will work across a range of transmission media, and data interfaces, and provides a highly flexible solution to a wide-range of network needs.

This compact unit also includes the following features:

- Very compact 1U unit requiring front-only access
- Up to 4 prioritised alarm inputs for each terminal equipment
- Manual over-ride front-panel switch)
- RS-232 control and monitoring port for local or remote control and/or diagnostics
- User-settable switching hysteresis
- Simple LED displays clearly indicate alarm and status information for the switch
- Latching relays maintain position during power failure or brown-outs
- Low power consumption.

The unit offers a simple front panel control and set-up system to allow operation with the minimum of additional equipment. Also, network management ports are provided to allow configuration by local terminal or connection to a network management control system.

### Typical project applications

- Configuration of protected point-to-point radio systems
- Back-up of primary to secondary transmission routes (independent of transmission media)
- Creation of ring networks



## Westica MFS2000

Protection Switch

### About Westica

**Westica provides robust and cost effective radio communications solutions for difficult terrains over distances between 250m to 60km, using digital point-to-point, wireless networks.**

Currently focused on providing solutions at 1.4GHz which enables rapid deployment using simple antennas in adverse environments; Westica's solutions allow clients to quickly adopt affordable and reliable communications solutions that would otherwise be cost prohibitive due to terrain related infrastructure issues. Delivering innovative solutions that work in situations that would otherwise require expensive infrastructure investment, Westica enables clients to quickly achieve new revenue streams in situations that would be otherwise difficult to justify the capital investment.

### For more information

Visit [www.westica.com](http://www.westica.com)

Call us on:  
**0141 889 6548**

Or email us at:  
**General enquiries:**  
[info@westica.co.uk](mailto:info@westica.co.uk)

**Sales enquiries:**  
[sales@westica.co.uk](mailto:sales@westica.co.uk)

**Technical enquiries:**  
[technical@westica.co.uk](mailto:technical@westica.co.uk)

**Marketing enquiries:**  
[marketing@westica.co.uk](mailto:marketing@westica.co.uk)

#### Westica Communications Ltd

Campsie Drive  
Glasgow International Airport  
Paisley  
PA3 2SF  
United Kingdom

**Tel:** +44 (0) 141 889 6548  
**Fax:** +44 (0) 141 849 7345

### Product Family

The Westica MFS2000 is part of a growing family of communications products designed to serve the needs of public network and commercial users. Other important network elements that are available include Westica's MRR800, MBR1000 and MBR2000 point-to-point radios, MRM1500 and MBM2000 multiplexers, Video Codecs, and nx2Mbit/s Cross Connect Switch. Please contact Westica for more information.

### Specifications

<b>Mechanical</b>	<b>Enclosure</b>	1U enclosure
	<b>Rack Practice</b>	19" and ETSI rack – alternatives available
	<b>Depth</b>	230mm
	<b>Weight</b>	3kg
<b>Power Requirements</b>	<b>Voltage Input Range</b>	24-48Vdc (polarity insensitive)
	<b>Power Consumption</b>	5W max
	<b>Power Connector</b>	2 Pin Fischer
<b>General</b>		Priority Alarm Switching (4 Alarms)
		User-settable switching hysteresis
	<b>RS-232 Control Interface allows monitoring of:</b>	All alarm input conditions Relay output status All LED indications Position of Mode Switch
<b>Connectors</b>	<b>Configuration/Status</b>	D-Type 25 Way connector (Female)
	<b>Common</b>	D-Type 37 Way connector (Male)
	<b>Alarm A and Alarm B</b>	D-Type 25 Way connector (Male)
	<b>Port A and Port B</b>	D-Type 37 Way connector (Female)
<b>Status Indications</b>		Tri-state LED's – A-side and B-side
<b>Environmental</b>		EN50081-1 (Cond. & RAD. Emissions)
		EN 50082-1 (Susceptibility)
		ETS 300 019 Class 1.1 (Storage)
		ETS 300 019 Class 2.2 (Transport)
		ETS 300 019 Class 3.1E (Operational)

*As an ongoing process of research and development, Westica Limited reserve the right to change the specifications outlined above without notice.*