
TRANSIENT FILTER SHIELD

FOR USE WITH THE 200 SERIES RTU FAMILY AND THE TELEMETRY CONTROL UNIT, THE TFS IS DESIGNED TO PROTECT DFS EQUIPMENT FROM HIGH VOLTAGE TRANSIENTS, SURGES, AND SPIKES.

The TFS001 is a DIN rail-mounted energy limiting device for use in protecting DFS TAC II Telemetry equipment from high voltage transients, surges, and spikes. It works in concert with the energy clamping devices built into all TAC II modules, resulting in high quality, non-destructive transient protection. The TFS' primary function is to protect RTU / TCU power and incoming three-phase voltage to a DFS phase monitor. It can also be used to protect DFS Digital Monitor points whose dry contacts are biased with 120VAC. Likewise, any DFS Digital Control outputs operating at 120VAC can also be protected.



FEATURES AT A GLANCE

- 120V/240V AC Powerline Operation
- 480V (with voltage dropping resistors) AC Powerline Operation
- Non-Destructive transient protection
- Protected circuits withstand multiple transients up to 6.5KV, 3.2KA without any damage or loss of operation
- Larger transients simply blow an externally serviceable fuse
- Reduces nuisance fuse blowing
- Can be used to protect Digital Inputs & Outputs
- Exceeds ANSI / IEEE Standard C62.41
- 4 protected AC channels, plus one neutral
- Convenient DIN rail mounting
- UL 1283 Recognized
- One Year Warranty



SPECIFICATIONS

Model	TFS001-02
One protected channel	120 VAC 2 Amp maximum load (Hot and Neutral)
Three protected channels	120 VAC 1 Amp maximum load each (Hot only); 240 VAC 1 Amp maximum load each (Hot only); 480 VAC (with voltage dropping resistors) 1 Amp maximum load each (Hot only)

ORDERING INFORMATION

The following kits contain the support components to install the specified unit or module:

Telemetry Control Unit (TCU001)	DFS-00319-008-1
RTU00X with PCM001	DFS-00319-008-4
RTU2XX with PCM001	DFS-00319-008-5
RTU2XX without PCM001	No Kit Needed
Extra 1 Amp Fuse Holder Assembly	DFS-00271-008-9
RTU00X without PCM001	DFS-00271-008-A
Extra 2 Amp Fuse Holder Assembly	DFS-00271-008-A
Extra 47 K ohm Resistor Assembly	DFS-00271-008-1

WARRANTY

This product carries a one (1) year return-to-factory warranty against defects in material and workmanship. When installed with factory recommended surge protection, the return-to-factory warranty is extended to three (3) years and is also covered against damage due to lightning and surge. DFS will repair or replace at its option, F.O.B. Melbourne, Florida, any part or parts of this product during the warranty period. A Return Authorization (RA) must be obtained by contacting the DFS Factory Repair Center at 321-259-5009 or by email at rma@dataflowsys.com.