

RFSD -2
Head-end /Hub-site
Signal monitoring and
RF Switch Control

Possible switch configurations:

- External switch control
- Internal input multiplexing
- Internal output selection
- Internal pilot carrier activation

Applications include:

- outage detection
- primary feed/backup switching
- amplifier AGC backup
- head-end monitoring

RFSD-2 RF Signal Monitor & Switch Controller

The RFSD-2 RF signal monitor measures the amplitude of analog or digital RF signals at two frequencies. Measurements are compared with programmable limits. Alarms may be indicated locally or remotely.

RF switch actions may be initiated. Pilot carrier can be switched in for supporting downstream amplifier AGC circuits.

All measurements, alarm status and switch status can be monitored remotely via TTL contacts.

Limits and set-up parameters may be changed and switches may be controlled.



Reliability through Simplicity

RFSD-2 $\hat{\circ}$ RF Signal Monitor & Switch Controller

Features:

- Dual fixed frequency receivers
- Real-time measurement display
- Local and remote programming via TTL
- Status monitoring alarms
- Manual switch override control

Options:

- Internal or external RF switches
- Pilot carrier for AGC control
- Input mux switches
- Alarm relay contact outputs
- Remote switch enable/disable input
- 120VAC / 240VAC / -48 VDC power input

Custom solutions available

VISA, Mastercard, Amex, Discover accepted

SPECIFICATIONS

Receivers:

- Amplitude range -13.0 to +33.0 dBmV
- Amplitude resolution 0.1 dB
- Amplitude accuracy..... ± 0.75 dB (+20 $^{\circ}$ C to +30 $^{\circ}$ C)
 ± 2.00 dB (0 $^{\circ}$ C to +45 $^{\circ}$ C)
- Frequency Range 5MHz to 1000MHz
- IF bandwidth 280 kHz, ± 30 kHz at 6 dB points,
600 kHz at 40 dB points
- Input port return loss >18 dB
- Spurious responses 40 dB down from indicated level
- Peak detector error < 1.0 dB TV composite modulated
signal vs CW signal

RF Switch:

- Frequency range DC to 1000 MHz
- Impedance 75 ohms
- Maximum signal 250 mW

	Insertion Loss*	Port-Port Isolation	Return Loss
50 MHz	0.2 dB	>75 dB	>30 dB
650 MHz	0.8 dB	>55 dB	>17 dB
860 MHz	1.0 dB	>46 dB	>14 dB

*(Main-to-Common, Standby-to-Common)
Un-switched port terminates into 75W

RF CW Pilot Carrier:

- Frequency may be specified ... 5-1000 MHz
- Amplitude +30 to +60 dBmV
- Spectral Purity > -60 dBc

Specifications subject to change without notice.



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