

# RTS<sup>®</sup> Two Wire Intercom Series

Innovating the future of communications



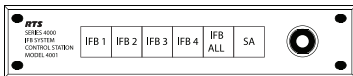
## 4001, 4002, 4003, 4010, 4030, IFB-325 IFB System

### Features

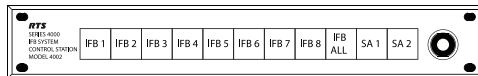
This IFB System is a one-way Interruptible Feedback communications system (a program interrupt system) created especially to meet critical requirements of the television broadcast industry, as well as other live or recorded media applications. The system is composed of user stations, central electronics and control panels. A modular approach assures the optimum configuration for each installation. Should system expansion be desired, additional components may be added as necessary. A typical system may consist of the following: up to four control panels, one central electronics unit, four user stations and assorted cabling and interconnect units. The maximum standard configuration allows four control panels, three central electronics, and twelve user stations.

### Line Drawing

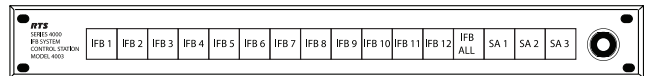
4001



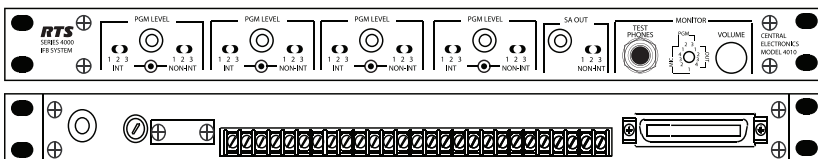
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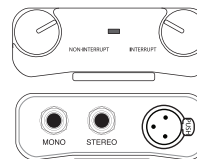
4003



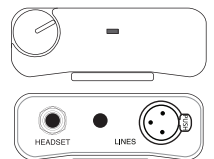
4010



4030



IFB-325



# IFB System Specifications

## 4001, 4003, 4003

Frequency Response 50Hz to 16kHz  
+0, -3 dB

Signal-To-Noise Ratio  
58 dB

Total Harmonic Distortion  
0.2%

Nominal Input Level  
Microphone  
123mV p-p  
Line  
-15 dBu to -5 dBu

Input Impedance Unbalanced Input  
Microphone  
470  $\Omega$   
Line  
4.7k  $\Omega$

Gain  
54 dB to 14 dB

Nominal Output Level  
-10 dBu, balanced, Z=300  $\Omega$

Power Requirements:  
4001: 14 VAC, 200 mA  
4002: 14 VAC, 450 mA  
4003: 14 VAC, 1 A

Dimensions:  
4001: 1.72" (43.7 mm) high, 8.5" (215.9 mm) wide, 3.4" (86.4 mm) deep  
4002: 1.72" (43.7 mm) high, 12.25" (312 mm) wide, 3.4" (86.4 mm) deep  
4003: 1.72" (43.7 mm) high, 19.0" (483 mm) wide, 3.4" (86.4 mm) deep

Weight:  
4001: 2.1 lb. (0.953 kg)  
4002: 2.3 lb. (1.043 kg)  
4003: 2.4 lb. (1.089 kg)

## 4010

Frequency Response 30 Hz to 16 kHz  
+1, -2 dB

Noise  
Interrupt channel  
-73 dBu  
Non-interrupt channel  
-83 dBu

Total Harmonic Distortion  
0.5%

Nominal Input Level  
Microphone @ line level  
-10 dBu/input Z=2k  $\Omega$   
Program  
0 dBu/input Z=2k  $\Omega$

Nominal Output Level  
To User Stations  
-8 dBu/unbalanced, Z=10  $\Omega$   
To SA amplifier  
-5 dBu/balanced, Z=800  $\Omega$

Crosstalk  
From other program inputs  
-67 dBu

Between left & right channels  
-64 dBu

Mains Power Consumption 120 VAC, (240 VAC version available),  
50/60 Hz

45 volt-amps  
Dimensions

1.72" (43.7mm) high, 19" (483mm) wide, 15.6" (395mm) deep  
Weight  
10.4 lbs. (4.7kg)

## IFB-325

Supplied Power Requirements:  
32 VDC nominal (standard RTS line). 50 to 80 mA

Dimensions:  
5" (127 mm) high, 3.5" (88.9 mm) wide, 1.8" (45.7mm) deep

Weight:  
1.0 pounds (0.45 kg)

Environmental Requirements:  
Storage: -WC to 80T 0% to 95  
Humidity: non-condensing  
Operating: PC to 50T 0% to 95%  
Humidity: non-condensing

Earset:  
150 to 600 $\frac{1}{2}$  headphones

RTS Intercom Channel:  
Input Level: 2 Vpp (0 dBu) nominal  
Input Impedance: 200 $\frac{1}{2}$   $\pm$ 5%

Noise Contribution:  
Less than -60 dB on the line

Voltage Gain:  
27  $\pm$ 3 dB from the line

Maximum Output:  
165 mW into 150 $\frac{1}{2}$

Frequency Response  
250 Hz to 8kHz +1/-4dB

Headset Connector  
Type:  $\frac{1}{4}$ " Monaural Plug  
Sleeve: Headset audio low  
Tip: Headset audio high  
Intercom Channel Connectors

Type: XLR-3F  
Pin 1: Common  
Pin 2: Intercom channel 1 (audio and +32 VDC input)  
Pin 3: Intercom channel 2 (audio)

## 4030

Power Consumption  
150mA maximum

Dimensions:  
5" (127 mm) high, 3.5" (88.9 mm) wide, 1.8" (45.7 mm) deep

Weight:  
0.67 lb (303 g)

Earset Connector  
 $\frac{1}{4}$ " (6.3mm)

## Ordering Information

**4001** • IFB 4 position control station for 4 IFB, 1SA •  
Catalog Number: 9000235900

**4001 RMA** • Rackmount adapter for 4001 • Catalog  
Number: 90002610002

**4002** • IFB 8 position control station for 8 IFB, 2SA •  
Catalog Number: 9000236100

**4002 RMA** • Rackmount adapter for 4002 • Catalog  
Number: 900026100001

**4003** • IFB 12 position control station for 12 IFB, 3SA •  
Catalog Number: 9000236300

**4010** • Central IFB electronics station • Catalog  
Number: 9000236500

**4030** • Portable two channel IFB user station •  
Catalog Number: 90007489000

**IFB-325** • Portable single channel IFB beltpack with  
 $\frac{1}{4}$ " jack • Catalog Number: 90007488000

This specifications information is preliminary and is subject to change without notification.

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