

BECKER COM

COMMUNICATION



Primeline • AS 3100-(41/42) Audio Selector Unit

■ The audio selector and intercom units AS 3100-(41/42) are designed to perfectly complement Becker Prime II Line avionics equipment and to fulfil the aviation professional's most stringent requirements. The units are well suited for fixed and rotary wing aircraft and incorporate more than the basic switching functions.

Driving and monitoring of up to four radio transceivers plus an additional PA amplifier, monitoring of five selectable navigation receivers and another five fixed audio sources; a sophisticated intercommunication device featuring both voice-controlled and manually-actuated IC operation, and a power amplifier capable of driving a 6 W cockpit speaker which is muted during

transmission and intercom to prevent acoustic feedback. For failsafe operation, the audio selector panels provide active redundancy through back-up microphone and headphone amplifiers.

All circuitry is of modular design and therefore easy to maintain and upgrade. The units are housed in a single compact case complying with ARINC standards.

The PrimeLine AS 3100-(41/42) may easily be supplemented by the well-known Becker ASI 3000 audio and intercom products such as auxiliary units, intercom and public address amplifiers, external jack boxes and service stations. ■

ASI 3100-(41/42)

Technical Data

- **Supply Voltage** + 27.5 V DC
- **Current Consumption** Without panel lighting
≤ 1.2 A
- **Transceiver in/outputs** 4 + Public Address
- **Receiver inputs** 5
- **Auxiliary inputs** 5
- **input characteristics** TX & RX: nom. 6 V into
5 kΩ
Aux.: 1 or 3 V resp.
into 1.2 kΩ
Exp.: 120 mV into 1.2 kΩ
- **Microphone input** AS 3100-(41)
standard carbon
250 mV into 150 Ω
AS 3100-(42) dynamic mic.
0.5 to 20 mV into 5 Ω
- **Modulation output** 750 mV into 150 Ω
- **Transmit indication** by green LED above
respective key
- **Headset Audio output** typ. 0.5 W into 8 Ω or
(normal operation) 0.8 W into 150 Ω
(Emergency Oper.) typ. 0.4 W into 8 Ω or
0.5 W into 150 Ω
- **Speaker output:** 6 W into 8 Ω
- **Intercom Audio output** 0.4 to 0.7 V into 200 Ω
(adjustable)
- **Voice Recorder output** nom. 330 mV into 10 Ω
- **HOTMIKE (Vox)** in positions 1 to 4
of TX selectors
switch - threshold
Operation
- **Intercom (IC) Operation** by IC key or (in pos. IC
of TX selector) by PTT key
- **Emergency Operation** through back-up amplifiers
actuated by EMER switch
- **Operating temperature** - 20°C to + 55°C
- **Maximum altitude** 50.000 ft

■ Dimensions:

Weight	0.73 kg (1.61 lbs)
Width	146 mm (5.75")
Length	216 mm (8.50")
Depth	38.1 mm (1.5")

■ Base of qualification

RTCA DO-160 / DO-170

