



MasterPoint S3 LCD

The fourth generation of Beel Technologies MasterPoint S3 SSR monitor provides continuous verification of integrity, accuracy, phase and azimuth alignment of secondary surveillance radars.

- Single (not shown) or dual channel versions
- Automatic switchover (dual channel only)
- Operation in modes 3/A, C and S Level 3
- Control via LCD and network ready embedded web server
- Fully solid state
- Built in test and fault reporting
- Modular construction
- Directional antenna
- Integral 50 dB attenuator
- Flight ID
- Indoor 19 inch 6U rack mount chassis
- Mode S features:
 - Level 3 (Comm A/B and Comm C ELM) datalink
 - Enhanced Surveillance
 - Surveillance Identifier (SI) Capability
 - Optional: set BDS registers using 429 labels

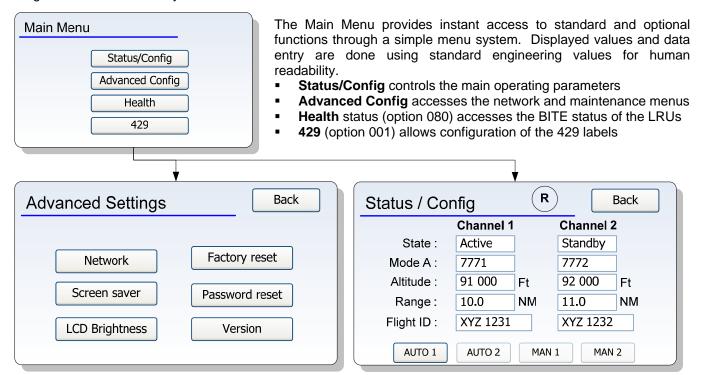
SPECIFICATIONS

Part Numbers:	41169 – Single Channel	42169 – Dual Channel		
Transmitter		Dimensions (L x W x H)	
Transmit Frequency Transmit Power	1090 ± 1 MHz 125 Watts peak (minimum) 500 Watts peak (maximum)	SSR Monitor Antenna	563 x 484 x 268 mm 457 x 584 x 178 mm	
Receiver		Weight	41169.000	42169.000
Center Frequency Sensitivity	1030 ± 0.2 MHz -74dBm ±3dB	SSR Monitor Antenna	15 kg	24 kg kg
Parameters				
Interrogation Modes Mode S Formats Altitude (feet) Range Delay (NM)	3/A ,C, S Level 3 0, 4, 5, 11, 16, 20, 21, 24 -1000 to 126000ft, 100ft steps 0.3-300 NM in 0.1 NM steps	Reliability MTBF (hours) MTTR (minutes)	41169.000 40,000 24	42169.000 55,000 30
Antenna		Environmental		
Frequency Range Construction Impedance Gain	1020 to 1100 MHz Full wave backfire 50 Ohms 12.5 ± 0.5 dBi	Operating Temperature Storage Relative Humidity Altitude, Operating Altitude, Non-Operating	0° C to + 40° C -40° C to + 65° C Up to 90% , non-condensing Up to 3,000 m Up to 5,000 m	
Power		Weather, Antenna	Up to 100% hu	
AC Input Frequency Power consumption (Typical)	86-264V AC 47-63Hz 80 watts (41169.000) 120 watts (42169.000)	Wind: 158 km/hr with driving rain or 4 cm of ice loading. Up to 240 km/hr wind while not operating.		ice loading.



Advanced Menu and Control System

The next generation MasterPoint S3 incorporates an embedded control system with LCD touch screen panel which brings an unprecedented simplicity and ease of use through an intuitive graphical user interface. A first time setup wizard guides the user through setting the basic parameters. Advanced users and installations can be configured through the standard menu system.



Every unit includes Advanced Settings to configure typical network parameters and perform basic maintenance functions. The Status/Config screen provides a simple view of the current transponder settings and allows quick editing by touching the field and updating the data.

Options	Description				
000	Standard configuration Mode S Level 3 test transponder. Includes remote control via embedded web server over TCP/IP (Ethernet) to control Mode A, C, Flight ID and range delay.				
001	Integrated 429 interface provides ability to set GICB (BDS) registers:				
	Description	BDS	Description	BDS	
	Aircraft /Flight Identification	2,0	Ground Speed	5,0	
	Selected Altitude	4,0	True Airspeed	5,0	
	True Track Angle	5,0	Own Magnetic Heading	6,0	
040	Uninterruptible Power Supply (UPS) unit provides continuous AC power during short term power loss				
080	BITE reporting, including BITE encoded Mode C replies (priority encoded altitude increases)				
100	Support for Mode 1 & 2 replies in accordance with the DOD AIM565-1000B				

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