LTR 400 FF

Far Field monitor system

The LTR 400 FF is a special variant of the LTR 400 transponder system. The LTR 400 Farfield Monitor is a transponder installed at a fix position and operated for test and monitoring purposes for an interrogation system.

The transponder replies to interrogation calls. The reply signal can be evaluated and interpreted within the interrogator.

The LTR 400 FF system is available with different variants of LTR 400 transponders to fit perfectly to customer needs.

The LTR 400 FF system is either provided with a fixed altitude setting of 99.000 ft. that can be selected through the remote Control and Display Unit (CADU) or with a Gilham Dongle, which can be plugged into the CADU Gilham interface to set the required fixed altitude.

To support full Mode 5 Level 2 functionality cables delivered within the LTR 400-CFF System are equipped with ARINC 429 break-outs that can be used for provision of required navigation data to the LTR 400.

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Far Field monitor system

System features

- Lightweight Transponder LTR 400 (A or C)
- Control and Display Unit CADU-5
- Transponder SLS Antenna
- Power Supply Unit (PSU)
- Far Field Monitor Cable (XPDR/PSU)
- FFM Configuration Cable (CADU/XPDR)
- RF Cable
- Travel Adapter 3–pole
- Transportation case

Main characteristics

- Mode S: level 2, SI-code processing, Elementary & Enhanced Surveillance Extended Squitter
- Modes 1, 2, 3/A, C, 4, 5 up to level 2
- Appliqué Crypto QRTK3-B for Mode 4
- Appliqué Crypto QRTK3-NG for Mode 4/5
- Priority processing of interrogations
- Comprehensive Built-In Test (BIT)
- Outstanding MTBF of LTR 400 (45.000 h / GF 30° C) and CADU (70.000 / GF 30° C)

Specifications		LTR 400X-AFF	LTR 400-AFF	LTR 400-CFF
Modes	ATC	A, C, S L1 and L2	A, C, S L1 and L2	A, C, S L1 and L2
	ADS-B Out	NO	NO	YES (Surface Position Squitter, ID-Squitter, Event-driven-Squitter)
	IFF	1, 2, 3	1, 2, 3, 4	1, 2, 3, 4, 5 L1 and L2
ARINC 429 break-outs		N/A	N/A	YES
Fixed altitude		Configurable via Gilham Dongle	Configurable via Gilham Dongle	99.000 ft. selectable through CADU, Configurable via Gilham Dongle
Physical characteristics	Primary Power	115/230 V AC , 50 W maximum		
	Receiver	Dual Bandwidth Receiver Centre Frequency: 1030 +/- 0.1 MHz Sensitivity: -77 dBm (typ.)		
	Transmitter	Transmitter Frequency: 1090 +/- 0.1 MHz Peak Power: 320 W min		
	BITE	PBIT, IBIT, CBIT		
Dimensions	H x W x D	391 mm x 518 mm x 796 mm		
Weight incl. transport case		23 kg		

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