TTR-4100 TCAS II TRAFFIC COMPUTER FOR HELICOPTERS

INCREASE MISSION SAFETY

NextGen® traffic surveillance and alerting

In support of industry-wide helicopter safety initiatives, Collins Aerospace's TTR-4100 traffic alert and collision avoidance system (TCAS II) traffic computer brings new-generation capabilities to your operations.

TCAS II provides your helicopter pilots with aircraft detection and automated resolution advisories. Aural and visual alerts advise the pilot on what action to take – decreasing the need to acquire visual confirmation of the traffic threat and to consult with air traffic control before taking action. This reduces workload while enabling a faster response to impending traffic conflicts. It improves operational safety and mission effectiveness – especially at night or in poor weather conditions.

Already certified by the Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA), the TTR-4100 offers weight and capability advantages over previous systems. It's the ideal solution for size-, weight- and power-constrained airframes.

When combined with dual Collins Aerospace TDR-94 Mode S transponders, the TTR-4100 provides your helicopter operators with a complete traffic awareness and threat avoidance system. It is certified as optional equipment on many medium and heavy commercial helicopters, including the Airbus Helicopters H225 and H175, Leonardo Helicopters AW189 and AW169 and Sikorsky S-92.

KEY FEATURES

- TCAS II version 7.1 compliant – meets the latest mandates for traffic advisory and resolution systems
- ADS-B In* provisioned with growth to NextGen airspace capabilities
- Certified by FAA TSO C119C, DO-185B, DO-178B, DO-254 and DO-160F
- Certified by EASA TSO C119C, ED-143, ED-12B, ED-80 and ED-14F
- 30-target display capability – enhances safety in congested airspace
- 30 to 40 NMI traffic surveillance range – improves pilot situational awareness

*ADS-B In will be subject to the release of future service bulletins.

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ADVANTAGES OF CONTINUAL INNOVATION

As our next-generation TCAS, the TTR-4100 replaces our TTR-4000, which was an established market leader and is in use on board medium and large helicopters around the world.

All Collins Aerospace products are continually refined to deliver optimum performance, reliability and efficiency. The TTR-4100 features a simplified design, which requires no manual tuning. It also delivers higher reliability while minimizing long-term parts obsolescence. These improvements are complemented by lower system power consumption and an overall weight reduction of nearly 4 pounds when compared with previous TCAS systems.

The TTR-4100 consists of one transmitter/receiver and two TRE-920 TCAS directional antennas, with an optional control panel and cockpit display for installations not requiring integration with existing avionics displays.

SPECIFICATIONS
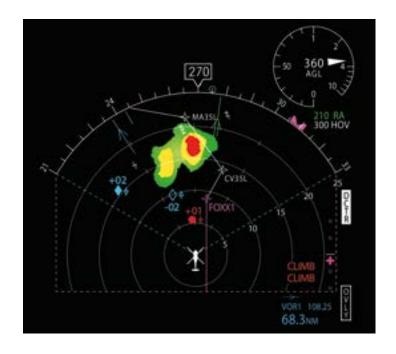
Part number	822-3075-001
Size	4 MCU: 7.64" H x 5.06" W x 15.26" D (194.06 x 128.52 x 387.6 mm)
Weight	3.7 lbs. (6.2 kg) max, 12.7 lbs. (5.8 kg) nominal
Power required	28 VDC, 50 W max, 35 W nominal

Specifications subject to change without notice.

Collins Aerospace

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