

Re: FCC ID TDJGC132926

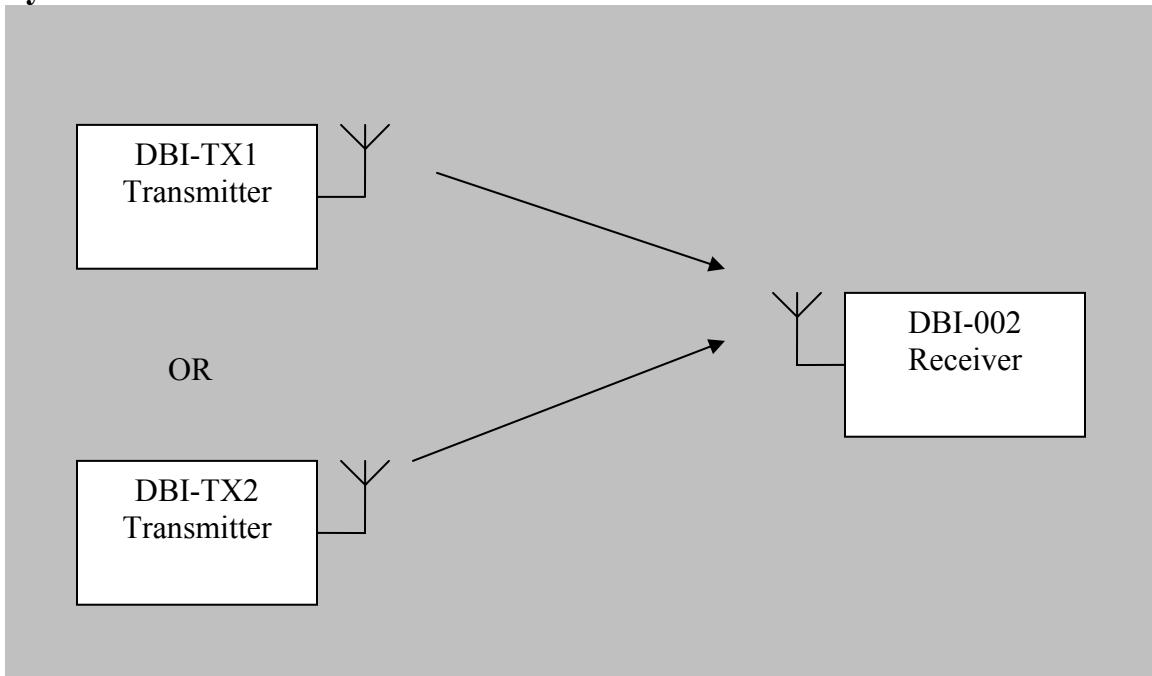
Applicant: Digitool Instruments AB

Correspondence Reference Number: 29367

731 Confirmation Number: EA924651

Operational description

System



The system consists of one DBI-002 receiver and one of DBI-TX1 or DBI-TX2 transmitters.

The transmitters DBI-TX1 and DBI-TX2 acquire and transmits temperature data to the DBI-002 receiver.

The DBI-002 receiver indicates received temperature data on a display.

DBI-TX1 (transmitter)

The DBI-TX1 acquires air contact probe and enclosure temperature at 2.3 seconds periodic interval. When probe exceeds enclosure temperature by 10° F (transmit limit), a data packet is transmitted at every interval. Transmission length is 37 milliseconds. Data packet transmissions stops 5 minutes after probe temperature is below the transmit limit. Data packet includes preamble, sync, identification data, temperature data, checksum and CRC data.

During operation, no operator interaction controlling the transmitter is involved.

To permanently power off the DBI-TX1, the internal socket mounted lithium cell is removed.

DBI-TX2 (transmitter)

The DBI-TX2 operates identical to the DBI-TX1 except that the air contact probe is replaced by a radiation temperature acquisition sensor.

DBI-002 (receiver)

The DBI-002 receiver is part of a self contained flight instrument. The RF receiver part detects DBI-TX1 or DBI-TX2 RF carrier and acquires transmission packages. When identification, checksum and CRC are correct, temperature data is indicated on the DBI-002 display. Otherwise, no reception status is indicated.

During operation, no operator interaction controlling the receiver is involved.

The DBI-002 power on / off is manually controlled.