

CALIBRATION PROGRAM

Capital Avionics (CA) is a manufacturer of precision magnetic-sensing equipment for the aerospace industry. As part of the manufacturing and support division, CA maintains an in-house calibration laboratory strictly for its own equipment. CA does not perform calibrations on other manufacturers' devices.

We rely upon in-house procedures, test equipment, jigs and assemblies specifically designed for support of our products. Our references are primarily physical constants, and we operate the laboratory under ISO9001:2015 for general guidance and calibration-specific ISO10012.

Our calibration certificate (next page) is a compendium of past and current programs and represents the best overall document that meets both our and our customers' needs. For those requesting "IN" data, this is included in the certificate.

With increasing frequency, we are being asked to modify our calibration certificate to meet a particular customer's quality requirements. We cannot do this. If it becomes obvious that the document needs updating through consensus, then we will affect the necessary changes. But for single requests, the answer is no.

For Purchase Orders that specify calibration terms and conditions that we do not meet, either the PO will need to be amended, or independent acknowledgement of our calibration terms and conditions will need to be offered.

For the record, the compasses must be returned to CA because no other calibration lab has the approval to inspect, test, upgrade, align and/or calibrate these devices, nor the required documentation and test equipment.

We welcome on-site quality audits but for security reasons restrict inspectors to the review of the Configuration Management Systems in place, limiting access to the contents of the documents themselves, and the detailed physical operation of the plant.

SAMPLE



CERTIFICATE OF CALIBRATION

Customer Name
Address No 1
Address No 2
Address No 3

Certificate No: 0000
Issue Date: Day/Month/Year
Calibration Date: Day/Month/Year
Calibration Due: Day/Month/Year

PO:
Temperature: XX °F
Humidity: Standard

Make: Capital Avionics, Inc.
Type: Compass Correction System
Model: CA-420A
PN: 30-0002-01
SN / ID: XXXX/XXXX
Maximum Permissible Mag Error: 0.XX°_{RMS}

Accessories:
Model: CA-420B
P/N: 30-0003-01/02
S/N / ID: XXXX/XXXX
Maximum Permissible Mag Error: N/A

Instrument Condition:
Received:
Returned:
Limitations:

REF	OUT	VERNIER	REF	OUT	VERNIER
320.09°	320.0°	(examples)	180.0°	180.0°	180.0°
0.0°	0.0°	0.0°	210.0°	210.0°	210.0°
30.0°	30.0°	30.0°	240.0°	240.0°	240.0°
60.0°	60.0°	60.0°	270.0°	270.0	270.0°
90.0°	90.0°	90.0°	300.0°	300.0°	300.0°
120.0°	120.0°	120.0°	330.0°	330.0°	330.0°
150.0°	150.0°	150.0°			

Calibration Reference:
 CA-358 30-0021-00 Calibration Date: 25 April 2025, Due Date: 25 April 2027
 CA-420 Calibration Procedure P/N 04_CL_026 Rev5 15 June 2025

This certificate certifies that the above instrument(s) have been fully tested and calibrated to the manufacturer's published specifications, due allowance having been made for the uncertainty of the measurements, in accordance with ISO10012.

The calibration was performed using working standards, which are subject to periodic verification, with the measurements being traceable to National Physical Laboratory Standards, except where none exist.

This certificate shall not be reproduced, except in full, without prior written approval of the calibration facility.

Signature: _____ Approved Signatory Name: _____ Date: _____