

**EMDEX II
(STANDARD FIELD)
CERTIFICATE OF TESTING
OPERATIONS AND ACCURACY REPORT**



Customer Name: Gradient

Serial #: 1128 Unit Type: STD_X LIN CUST

Basic Program Version: 3.0C Memory: 156K

Calibrated @ 60 Hz Display: mG
Temperature: 25°C +/- 5°C Relative Humidity: 20% - 60%

**1356 Beaver Creek Drive
Patterson, CA 95363
(408) 866-7266
www.emdex-llc.com**

Magnetic Field Test:

Nominal (mG)	Actual Field (mG)	EMDEX II Readings (mG)	
3000	3000	3004.8	X AXIS
2000	2000	2003.2	
200	200	198.4	
20	20	20.0	
1	1	1.0	
3000	3000	3014.4	Y AXIS
2000	2000	2006.4	
200	200	198.4	
20	20	20.0	
1	1	1.0	
3000	3000	2992.0	Z AXIS
2000	2000	1990.4	
200	200	198.4	
20	20	20.0	
1	1	1.0	

Oblique Angle Test:

Internal Computer	LCD Display	Hand Calculated	
2000.0	2003	2003.1	RESULTANT

Near Zero Low Field Test: 0 0 RESULTANT

Electric Field Test:

Nominal	Injected Current (uA) (E-Field Sensor Current)	EMDEX II Readings (uA)
15.0 uA	15.00	15.16
1.5 uA	1.500	1.510
0.15 uA	0.150	0.150
Ambient	0	0

Tester: H. Christopher Hooper Date: 7/27/2018

Calibration due one year from date listed above.

Comment: Meter was submitted for calibration.
Pre-calibration values were within the meter's 2% specifications.
Unit was serviced, calibrated and is in good working order.

*The value of the Actual Magnetic Field is accurate to within +/-1.00% according to IEEE Standard 644-1994. The Injected Current, used for E-Field calibration, is accurate accordingly to within +/- 1.1%.



EU Declaration of Conformity

Application of Council Directives: 89/336/EEC

Standards to which Conformity is declared:
EN55022, EN61000-4-2, ENV50140

Manufacturer's Name: *EMDEX-LLC*

Manufacturer's Address: 1356 Beaver Creek Drive
Patterson, CA 95363

Type of Equipment: EMDEX II

Model/Serial Number: 1128

Year of Manufacture: 1991

I, the undersigned, hereby declare that the equipment specified above conforms to the Directives and Standards listed in this document.

Signature: *H. Christopher Hooper*

Full Name: H. Christopher Hooper

Position: QUALITY MANAGER

Place: Patterson, CA Date: 7/27/2018

Statement of Compliance

EMDEX-LLC

A: EMDEX-LLC has designed the EMDEX line of meters to comply with and has passed testing of EU Directive 89/336/EEC. The standards that apply to this testing include:

- 1) EN55022
- 2) EN 61000-4-2
- 3) ENV 50140

While other international standards may apply, EMDEX-LLC has not tested these meters for compliance with other standards and it is not incumbent upon EMDEX-LLC to do so.

B: EMDEX-LLC's Operations and Accuracy Report written for each meter is documented according to IEEE Standard 644-1994.

C: The equipment used as a standard to generate the magnetic field that is documented on EMDEX-LLC's Certificate of Testing Operations and Accuracy Report has been calibrated and is traceable to the National Institute of Standards and Technology (NIST) and ISO 17025. The calibration facility used by EMDEX-LLC is designed to comply with IEEE Standard 644-1994.

Meter Type: EMDEX II

Serial Number: 1128

Date: 7/27/2018

Technician: *A. Christopher Hooper*

Certificate of Calibration

The calibration of this instrument was controlled by documented procedures as outlined on the attached Certificate of Testing Operations and Accuracy Report using equipment traceable to N.I.S.T., ISO 17025, and ANIZ540-1 COMPLIANT.

Instrument Model: EMDEX II

Frequency: 60 Hertz

Serial Number: 1128

Date of Calibration: 7/27/2018

Re-Calibration suggested at one year from above date.

EMDEX
EMDEX-LLC
1356 Beaver Creek Drive
Patterson, California 95363
LLC (408) 866-7266

H. Christopher Hooper

Calibration Inspector