

***Test Report No.8512304444***

***For Galcon Irrigation Control Equipment Ltd.***

***Equipment Under Test:***

***The Agriculture Controller***

***Name: Galileo 32/16***

***Model: Galileo***

***From The Standards Institution  
Of Israel  
Industry Division  
Telematics Laboratory  
EMC Section***



***Certificate No. 1487-01***

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**Title:** Test on The Agriculture Controller

**Name:** Galileo 32/16, **Model:** Galileo

<b>Order placed by:</b>	Galcon Irrigation Control Equipment Ltd.
<b>Address:</b>	Kfar Blum 12150, Israel
<b>Sample for test selected by:</b>	The customer
<b>The date of test:</b>	16, 23/03/2005

#### **Description of Equipment**

<b>Under Test (EUT):</b>	The Agriculture Controller
<b>Name:</b>	Galileo
<b>Model:</b>	Galileo 32/16
<b>Manufactured by:</b>	Galcon Irrigation Control Equipment Ltd.

#### **Reference Documents:**

- ❖ AS/NZS CISPR 22: 2002: "Information technology equipment – Radio disturbance characteristics - Limits and methods of measurement".

#### **Test Results:**

The EUT was found to be in compliance with the requirements of the standard AS/NZS / CISPR 22 Class A.

This Test Report contains 24 pages and may be used only in full.	This Test Report applies only to the specimen tested and may not be applied to any specimen of the same product.
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## 1. EUT Description and operation

\* Description was provided by the customer.

### 1.1. General description:

**Description of Equipment Under Test (EUT):** The Agriculture Controller

**Name:** Galileo 32/16

**Model:** Galileo

**Manufactured by:** Galcon Irrigation Control Equipment Ltd.

Galileo is a high performance controller based on the Intel 80188 processor for agriculture usage. The EUT consist of build-in user interface for fully stand-alone operation, along with standard RS232 communication port for PC conducted network

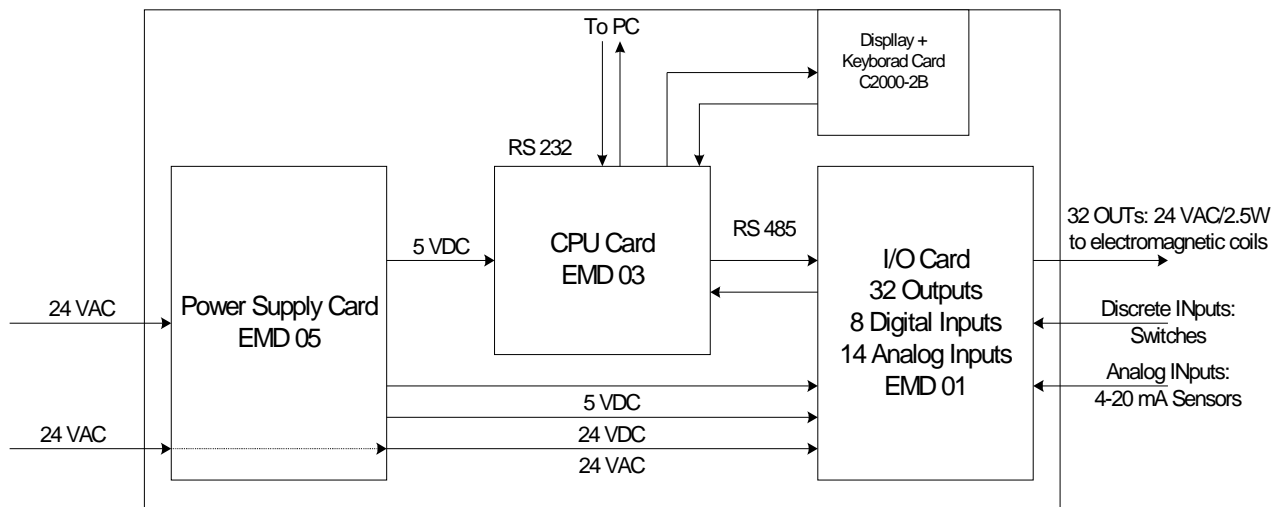
The EUT's dimensions are: 15.0 (L) x 34.1 (W) x 24.5 (H) (cm) approx.

The EUT's supplied via external Transformer 230 VAC / 24 VAC to internal Power Supply Card 24 VAC, 80 W.

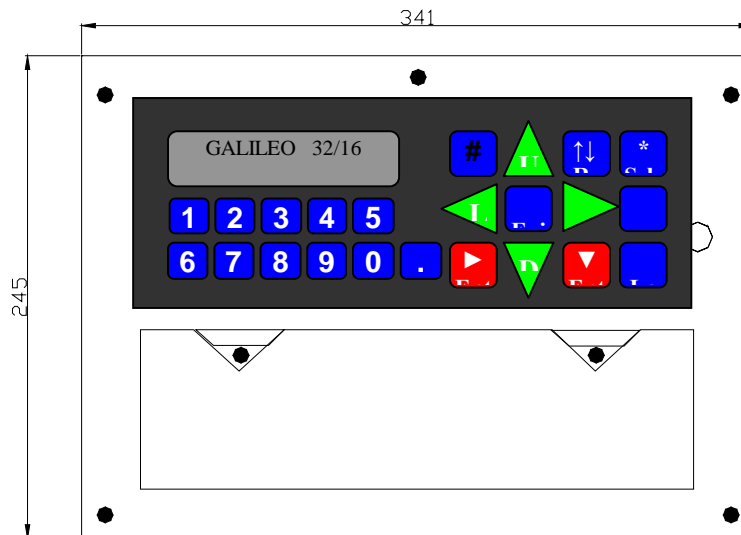
The EUT's block diagram is shown in Figure 1.

The EUT's front panel view and isometric schematic views are presented in Figures 2 and 3, respectively.

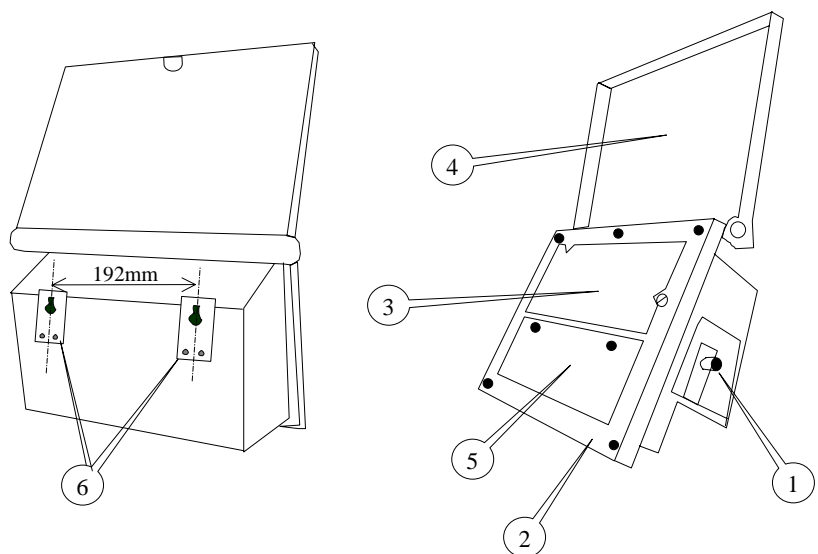
The EUT's views also can be found in Appendix 4.



**Figure 1. EUT's block diagram**



**Figure 2.**  
**EUT's Front panel schematic view**



**Figure 3.**  
**EUT's enclosure – isometric schematic views**

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\* Information in clauses below is provided by the manufacturer.

## 1.2. EUT's sub-assemblies list:

EUT's sub-assemblies list is detailed in Table 1.

**Table 1. Sub-assemblies list**

Function	Marking/Serial No./ Model
Main card (CPU card)	EMD 03
I/O Card (32 outputs, 8 digital inputs, 14 analog inputs)	EMD 01
Power supply card	EMD 05
Display + keyboard card	C2000-2B

## 1. EUT connector list:

A list of the EUT's connectors is detailed in Table 2.

**Table 2. Connector list**

No.	Description	Connector's type	Type of Cable	Length (m)	Location	No. of identical connectors
1	230 VAC mains	Standard	unshielded	< 3	External Transformer 230 VAC mains / 24 VAC	1
2	24 VAC mains	4 pin CPC	unshielded	2.0	24VAC Power supply from external transformer	2
3	Outputs	Phoenix IDC	shielded	3.0	24V AC /2.5W Electromagnetic coils	32
4	Discrete inputs	Phoenix IDC	shielded	3.0	Dry switches	8
5	RS 232	RJ 45	shielded	1.5	To PC	1
6	Analog inputs	Phoenix IDC	shielded	3.0	4-20mA Sensors	14

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### 1.3. Potential emission sources:

The potential emission sources are detailed in Table 3.

**Table 3. Potential emission sources**

Frequency (MHz)	Location	Remarks
22	EMD03	-
6	EMD 03 to C2000-2B	Communication between EMD 03 & C2000-2B
0.0192	Communication to PC	-
0.0192	Communication to expansion	-
0.0192	Internal communication between modules	-
3.686	EMD01	-

### 1.4. Auxiliary equipment used:

The potential emission sources are detailed in Table 3.

**Table 4. Auxiliary equipment used**

Name	MFR	Model	Ser. No.	Remarks
8 relay cards	Eldar-Shany	C6000-1	0801119	8 mini relays 24V mfr Takamisawa
PT100 sensor	Eldar-Shany	PT100	N/A	PT100 temperature probe with 4-20 mA adapter
OPTN	Eldar-Shany	N/A	N/A	Terminal block + lightning protection. Connected to outputs.
Dual transformer	Eldar-Shany	N/A	009279	230V to 24V dual transformers for stand-alone controllers.
PC host	Compaq	EVO	S/N: 6S2ALB5ZG291	--
Monitor	IBM	G5M	Type No: 654G-OBN; S/N: 55-ZM435	--
Mouse	Compaq	M-S69	Assy P/N: 334684-108; Spares P/N: 237241-001	--
Keyboard	Compaq	KB-0133	Assy P/N: 265987-BB8; Spares P/N: 237241-BB1	--

**1.5. RF Suppression Measures:**

Three ferrite beads mfr Feir-Rite were installed on the following cables (the reference photos can be found in Appendix 4):

1. P/N 0443164151 - on cable to the EUT (see Photo 2);
2. P/N 0443166651 - on the Flat cable to the LCD Monitor (see Photo 6);
1. Ferrite bead P/N 0443164151 - on the internal power cable at 3 cm distance from Power Supply Card (see Photo 7).

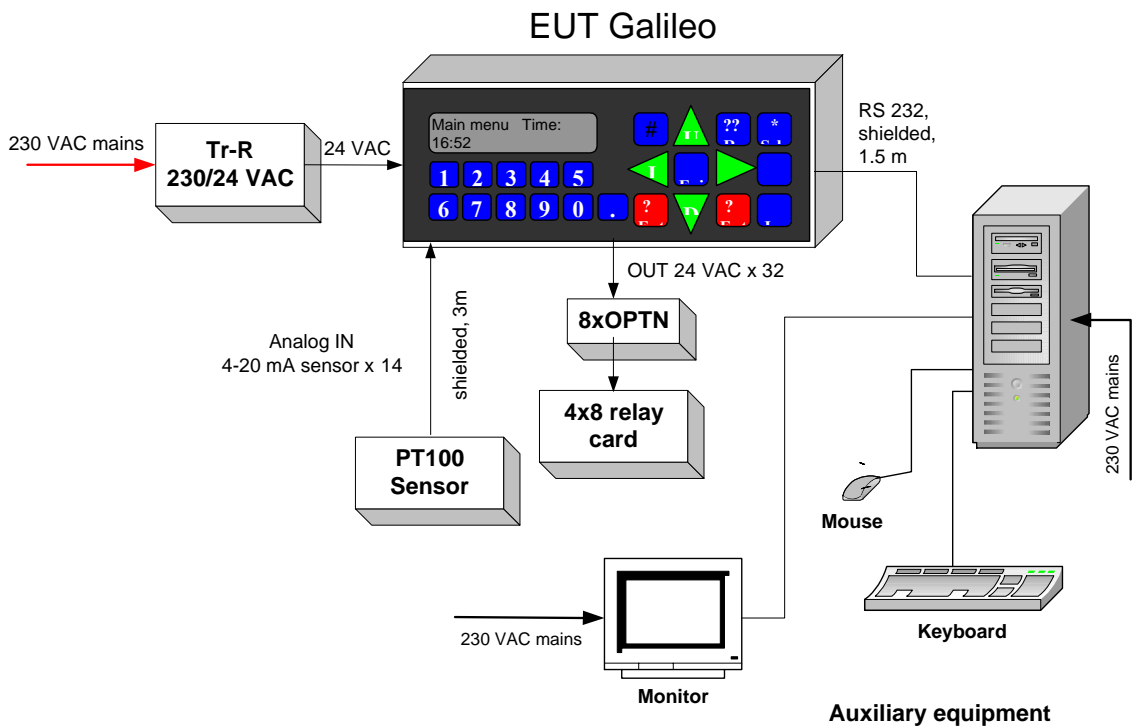
**1.6. EUT setup and operation:**

During the tests the EUT was configured as shown in Figure 3. The EUT was operated to reading and collection data from the sensors, open/close relays. The constant communication with PC via RS 232 was supported.

Protection devices:

The following external protection devices were used:

OPTN - lightning protection installed on 24 VAC outputs.



**Figure 4. Conducted and Radiated Emission test setup**



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## 2. Test specification, Methods and Procedures

- ❖ AS/NZS CISPR 22: 2002: “Information technology equipment – Radio disturbance characteristics - Limits and methods of measurement”.
- ❖ CISPR 22: “Information technology equipment - Radio disturbance characteristics – Limits and methods of measurements” (1997 + Amd 1 :2000).

## 3. Additional deviations or exclusions from the test specifications

Not applicable.

## 4. Measurements, examinations and derived results

### 4.1. Location of the Test Site:

Conducted emission tests and preliminary radiated test were conducted at the EMC laboratory of the Standards Institution of Israel in Tel-Aviv.

Radiated emission tests were conducted in an Open Area Test Site located at Kibbutz Native Halamed Hai in Emek HaEla, Israel.

### 4.2. Test condition:

Temperature: 23 °C. Humidity: 47 %. Atmospheric pressure:1010 mbar.

### 4.3. Initial visual check and functional test:

Initial visual check was performed before testing. No external damages were found.

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#### **4.4. Emission tests:**

- \* For both radiated and conducted measurements, initial scans were made using a peak detector but still using the appropriate CISPR 16 (Quasi-Peak) detector IF bandwidth.
- \* For conducted emissions, a tolerance limit was set 6 dB below the specification limit. Levels above the tolerance limit were retested using the Quasi-Peak detector or an average detector.
- \* For radiated emissions, a tolerance limit was set 10 dB below the specification limit. Levels above the tolerance limit were retested using the Quasi-Peak detector.
- \* If the result with a Quasi-Peak detector exceeds the specification limit, it is marked with "Fails" in the margin, if it is within the measurement uncertainty, it is marked with a "\*".

#### **4.5. Conducted emission tests:**

##### **4.5.1. Test Configuration:**

The EUT was placed on a non-metallic table in a shielded chamber at a height of 80 cm from the floor of the shielded chamber and 40 cm from the nearest wall of the chamber.

##### **4.5.2. Test procedure:**

The EUT was operated according to clause 1.6.

Test was performed on AC mains input to Transformer 230 VAC / 24 VAC.

First, initial scan were performed. Final measurements were performed for emission, which exceeded the tolerance limit.

Test equipment (EMI receiver) setup was as follow:

##### **Initial scan:**

Detector type	Peak
Mode	Max hold
Bandwidth	9 kHz
Step size	Continuous sweep
Sweep time	>100 msec

##### **Measurements:**

Detector type	Quasi-peak (CISPR)
Bandwidth	9 kHz
Observation	>15 seconds

##### **4.5.3. Test results:**

All received conducted emissions were found below following reference limits per standard AS/NZS CISPR 22: 2002:

Worst result measured on Phase line at 14.74 MHz with Peak detector was to 2.9 dB below AVG limit.

Test results and plots can be found below.

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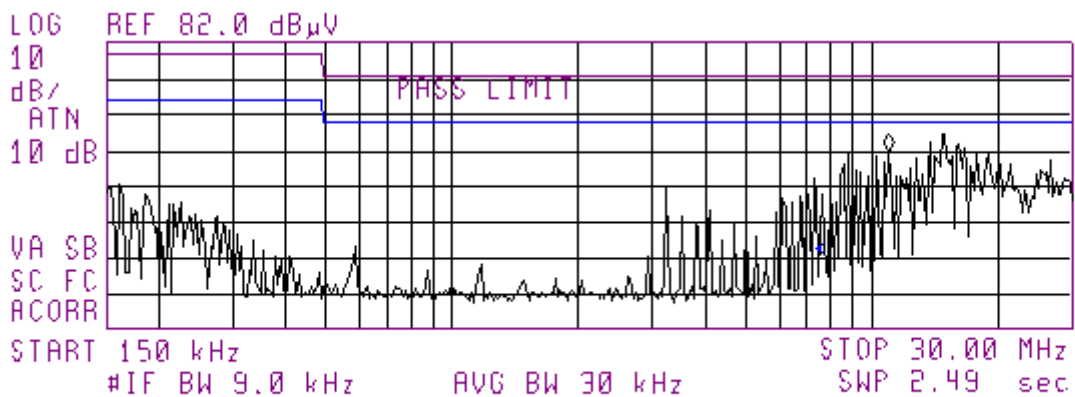
**Title:** Test on The Agriculture Controller

**Name:** Galileo 32/16, **Model:** Galileo

11:14:19 MAR 16, 2005  
GALCON/GALILEO 32/16 PHASE

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	PK $\Delta$ L2
1	8.847152	52.0	50.4	39.5	-8.0
2	13.571521	52.0	49.3	37.6	-8.0
3	14.744461	57.1	55.1	42.7	-2.9
4	15.637446	53.9	50.0	40.8	-6.1
5	17.101338	48.0	47.2	38.3	-12.0

FREQ 10.91 MHz  
PEAK 51.4 dB $\mu$ V  
QP 48.4 dB $\mu$ V  
AVG 37.6 dB $\mu$ V



**Plot # 1.**

Scan of conducted emission  
Specified limit: CISPR 22 Class A  
Tested line: Phase, peak detector

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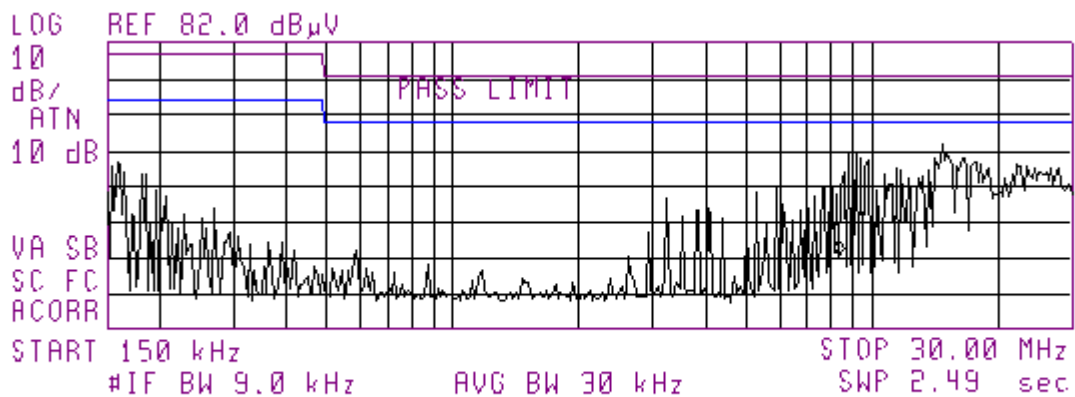
**Title:** Test on The Agriculture Controller

**Name:** Galileo 32/16, **Model:** Galileo

11:19:53 MAR 16, 2005  
GALCON/GALILEO 32/16 NEUTRAL

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	PK $\Delta$ L2
1	8.554289	51.3	49.4	39.4	-8.7
2	9.136303	51.9	50.0	38.1	-8.1
3	9.439063	50.6	48.9	37.9	-9.4
4	14.154487	52.4	48.5	39.3	-7.6
5	16.212184	50.7	47.5	38.1	-9.3

FREQ 8.253 MHz  
PEAK 51.2 dB $\mu$ V  
QP 49.4 dB $\mu$ V  
AVG 37.0 dB $\mu$ V



### Plot # 2.

Scan of conducted emission  
Specified limit: CISPR 22 Class A  
Tested line: Neutral, peak detector

#### **4.6. Radiated emission test:**

##### **4.6.1. Preliminary radiated emission tests:**

Preliminary radiated measurements were performed in a semi-anechoic chamber at a distance of 3 meters. The EUT was setup in its typical configuration and operated in its various modes. For each mode of operation the frequency spectrum was monitored. EUT configuration, cable configuration and mode of operation, which produced the maximum level of emission, were documented. A list of frequencies to be tested was prepared.

##### **4.6.2. Final measurements:**

The final radiated measurements were performed at the Open Area Test Site.

The EUT was installed on a non-metallic table 0.8 m height placed on the turn-table.

All measurements at the Open Area Test Site were performed at a 10 m measurement distance.

The Bilog 30 MHz-2 GHz antenna was used.

The EUT's configuration and mode of operation, which produced the maximum level of emissions, were selected.

The Frequency range from 30 to 2000 MHz was investigated.

The measurements were performed at each frequency found previously and at frequencies at which the signal was 10 dB below the limit or less.

All measurements at the Open Area Test Site were performed at a 10 m measurement distance from the EUT.

The levels were maximized by initially rotating turntable through 360°, varying the antenna height between 1 m and 4 m, rerouting EUT cables and changing antenna-to-EUT polarization from vertical to horizontal.

Unless stated otherwise, the measuring equipment settings were:

##### **Initial scan:**

Detector type	Peak
Mode	Max hold
Bandwidth	120 kHz
Step size	Continuous sweep
Sweep time	>1 seconds/MHz

##### **Measurements:**

Detector type	Quasi-peak (CISPR)
Bandwidth	120 kHz
Measurement time	20 seconds/MHz
Observation	>15 seconds

The EUT was operated as described in clause 1.6.

##### **4.6.3. Radiated emission test results:**

Test results are presented in Table 5.

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**Table 5. Radiated emission test results**

**Ref. standard: CISPR 22 Class A**

Frequency (MHz)	Turn- table Angle (°)	Antenna Polariz.	Antenna Height (m)	Emission Level @ 10 m (dBμV/m)	Limit @ 10 m (dBμV/m)	Margin (dB)	Results
30.3	V	2.58	202	36.2	40.0	3.8	Complies
79.9	V	2.99	180	33.5	40.0	6.5	Complies
110.6	V	1.24	300	38.6	40.0	1.4	Complies
121.6	V	1.20	74	38.9	40.0	1.1	Complies
143.8	V	1.21	172	37.5	40.0	2.5	Complies
146.6	V	1.20	154	35.0	40.0	5.0	Complies
177.0	V	1.24	355	35.4	40.0	4.6	Complies
179.7	V	1.20	17	32.0	40.0	8.0	Complies
188.0	V	1.20	133	33.6	40.0	6.4	Complies
199.1	H	1.79	238	33.6	40.0	6.4	Complies
213.0	V	1.21	172	30.9	40.0	9.1	Complies

Note: Emission level = E Reading (dBμV) + Cable loss (dB) + Antenna Factor (dB/m)  
 where:  
 For Cable Loss and Antenna Factor refer to Appendix 3.

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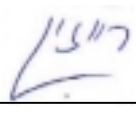
**Name:** Galileo 32/16, **Model:** Galileo

## 5. Compliance with specification

Test	Standard	Class/ Severity level	Test result
Conducted emission Frequency range of 150 kHz to 30 MHz	AS/NZS CISPR 22: 2002	Class A - on AC mains	Complies
Radiated emission Frequencies range of 30-2000 MHz		Class A	Complies

  
 \_\_\_\_\_  
 Approved by: Eng. Yuri Rozenberg  
 Position: Head of EMC Branch

Telematics  
 Laboratory  
 16 May 2005

  
 \_\_\_\_\_  
 Tested by: Maxim Reizin  
 Position: Test Technician

  
 \_\_\_\_\_  
 Written by: Rotenfeld Mariya  
 Position: Technical Writer

## 6. Appendix 1: Test equipment used

All equipments' measurements are on SII calibration schedule with a recalibration interval of once a year.

Instrument	Manufacturer	Model	Serial No.	Last calibration date	Next calibration date
EMI Receiver	HP	8546A+85460A	SII 4068	11/04	11/05
EMI Analyzer	HP	E7405A	SII 4944	11/04	11/05
LISN 9 kHz – 30 MHz	FCC	LISN- 50/250-32-4-16	SII 5023	05/04	05/05
Transient limiter 0.009-200 MHz	HP	11947A	31074A3105	05/04	05/05
Biconilog Antenna 30 – 2000 MHz	Schaffner- Chase	CBL-6112B	S/N 2531	12/04	12/05
Antenna Mast	R&S	HCM	100002	N/A	N/A
Metallic turntable	R&S	HCT12	100001	N/A	N/A
Positioning controller	R&S	HCC	100002	N/A	N/A
RF current probe 0.01-500 MHz	Fischer Custom	F-52	SII53925	05/04	05/05

## 7. Appendix 2: Measurement uncertainty

The test equipment has been calibrated according to its recommended procedures and is within the manufacturer's published limit of error.

The laboratory calibrates its standards by a third party (traceable to NIST, USA) on a regular basis according to equipment manufacturer requirements.

Test description	Expanded uncertainty
<b>Conducted emissions</b>	uncertainty at 95% confidence from 150 kHz to 30 MHz: 2 Uc (P) = ± 2.8 dB
<b>Radiated emissions</b> in the open field test site at 10 m measuring distance at 3 m measuring distance	uncertainty at 95% confidence Biconilog Antenna 2 Uc (E) = ± 4.18 dB 2 Uc (E) = ± 4.32 dB



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## 8. Appendix 3: Antenna Factor and Cable Loss

### Cable Loss (10m cable + Mast)

Point	Frequency (MHz)	Cable Loss (dB)	Point	Frequency (MHz)	Cable Loss (dB)
1	30	0.53	21	1000	3.68
2	50	0.75	22	1100	3.82
3	100	1.08	23	1200	4.07
4	150	1.39	24	1300	4.24
5	200	1.61	25	1400	4.43
6	250	1.752	26	1500	4.6
7	300	2.00	27	1600	4.7
8	350	2.15	28	1700	4.85
9	400	2.26	29	1800	4.98
10	450	2.383	30	1900	5.19
11	500	2.52	31	2000	5.34
12	550	2.606	32	2100	5.51
13	600	2.75	33	2200	5.69
14	650	2.856	34	2300	5.89
15	700	3.06	35	2400	6.07
16	750	3.201	36	2500	6.22
17	800	3.27	37	2600	6.28
18	850	3.38	38	2700	6.41
19	900	3.46	39	2800	6.53
20	950	3.55	40	2900	6.84

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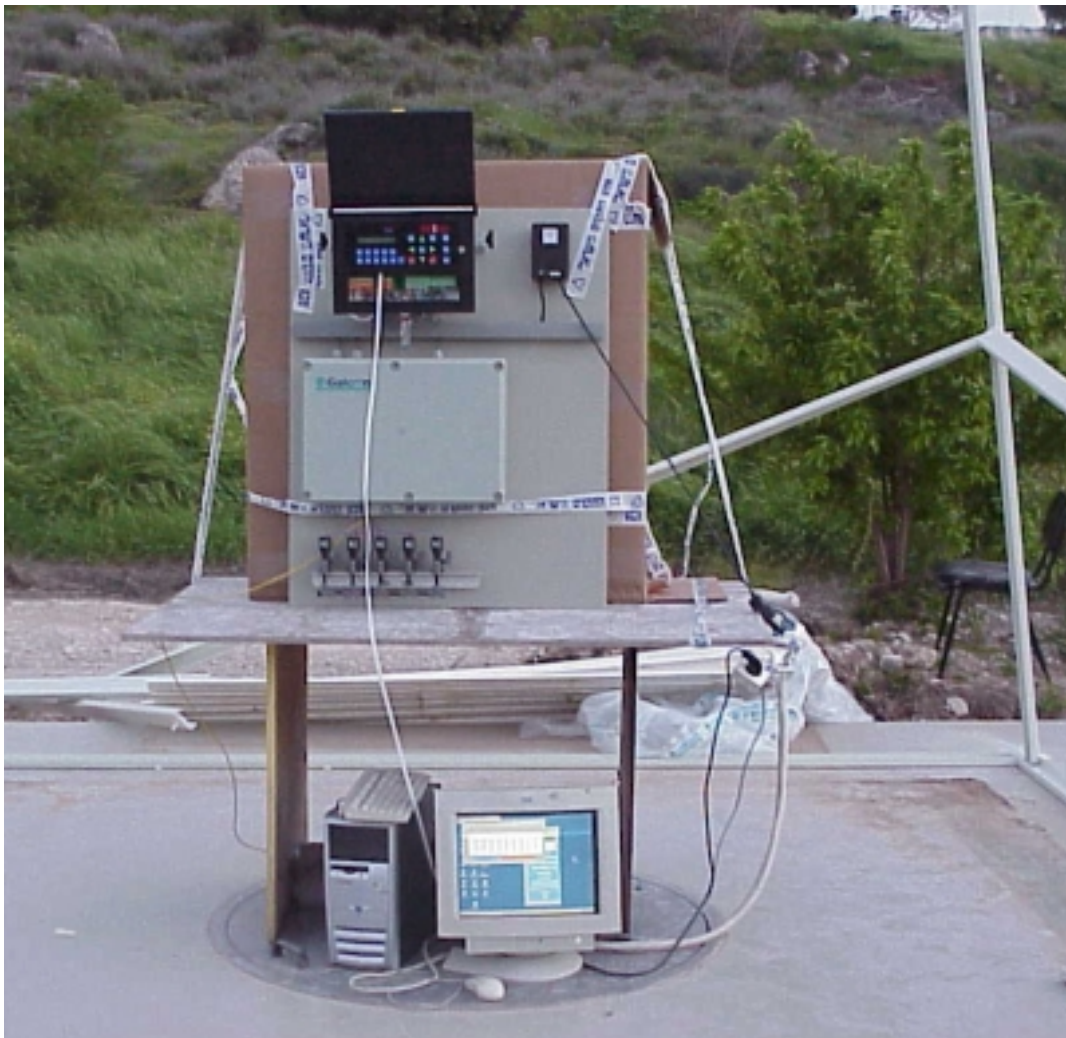
### Antenna Factor

For Biconilog Antenna, Model Number: CBL-6112B, S/N: 2531  
10 m Calibration

Frequency (MHz)	Antenna Factor (dB/m)	Frequency (MHz)	Antenna Factor (dB/m)	Frequency (MHz)	Antenna Factor (dB/m)	Frequency (MHz)	Antenna Factor (dB/m)
Vertical Polarization				Horizontal Polarization			
26.00	20.77	625.00	19.10	26.00	20.39	625.00	19.08
28.00	19.77	650.00	19.20	28.00	19.15	650.00	19.26
30.00	18.72	675.00	19.05	30.00	18.29	675.00	19.12
40.00	14.76	700.00	19.26	40.00	12.64	700.00	19.11
50.00	8.32	725.00	19.73	50.00	7.99	725.00	19.49
60.00	6.15	750.00	20.11	60.00	5.95	750.00	19.94
70.00	6.49	775.00	20.41	70.00	6.04	775.00	20.07
80.00	7.26	800.00	20.50	80.00	7.60	800.00	20.18
90.00	8.83	825.00	20.57	90.00	9.07	825.00	20.36
100.00	10.55	850.00	20.73	100.00	10.34	850.00	20.57
110.00	11.38	875.00	20.92	110.00	11.12	875.00	20.83
120.00	11.71	900.00	20.79	120.00	11.46	900.00	20.74
130.00	11.57	925.00	21.02	130.00	11.47	925.00	21.17
140.00	11.09	950.00	21.32	140.00	11.15	950.00	21.11
150.00	10.46	975.00	21.76	150.00	10.50	975.00	21.52
160.00	9.82	1,000.00	21.97	160.00	9.86	1,000.00	21.64
170.00	9.52	1,050.00	22.55	170.00	9.58	1,050.00	22.02
180.00	9.18	1,100.00	22.47	180.00	9.28	1,100.00	22.16
190.00	8.90	1,150.00	22.78	190.00	9.54	1,150.00	22.44
200.00	9.11	1,200.00	22.77	200.00	9.82	1,200.00	22.86
225.00	9.70	1,250.00	23.36	225.00	10.42	1,250.00	23.37
250.00	12.41	1,300.00	23.90	250.00	12.43	1,300.00	23.86
275.00	12.81	1,350.00	24.19	275.00	13.19	1,350.00	24.02
300.00	13.37	1,400.00	24.42	300.00	13.48	1,400.00	24.42
325.00	13.70	1,450.00	24.83	325.00	13.73	1,450.00	24.61
350.00	14.45	1,500.00	24.88	350.00	14.61	1,500.00	25.02
375.00	14.90	1,550.00	24.85	375.00	15.15	1,550.00	25.27
400.00	15.63	1,600.00	25.06	400.00	15.74	1,600.00	25.27
425.00	16.38	1,650.00	25.55	425.00	16.52	1,650.00	25.50
450.00	16.43	1,700.00	26.20	450.00	16.54	1,700.00	25.48
475.00	17.28	1,750.00	26.45	475.00	17.28	1,750.00	26.35
500.00	17.41	1,800.00	26.58	500.00	17.47	1,800.00	26.51
525.00	17.35	1,850.00	27.30	525.00	17.31	1,850.00	26.63
550.00	18.97	1,900.00	27.96	550.00	18.64	1,900.00	27.04
575.00	18.87	1,950.00	27.80	575.00	18.60	1,950.00	27.13
600.00	18.82	2,000.00	27.73	600.00	19.04	2,000.00	27.20

## 9. Appendix 4: Test configuration photographs:

This appendix contains the following illustrations (photographs):



**Photo 1.**  
**Radiated emission test setup. Front view**

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**Photo 2.**  
**Radiated emission test setup.**  
**EUT's Front /side view**  
**Ferrite bead P/N 0443164151 on cable to the EUT**

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**Photo 3.**  
**Radiated emission test setup.**  
**EUT's side / internal view**

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**Ground cable**

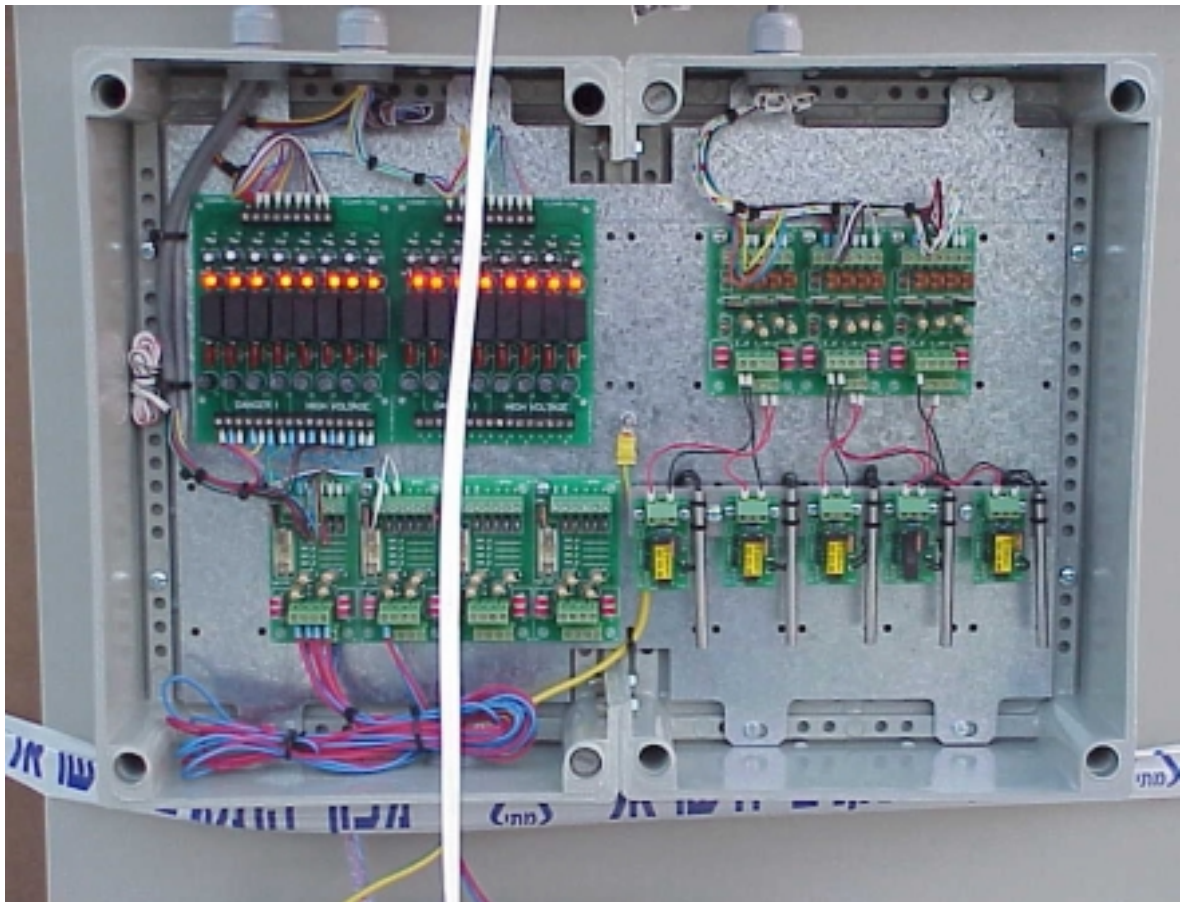
**Photo 4.**  
**Radiated emission test setup.**  
**Load - Front /side view**

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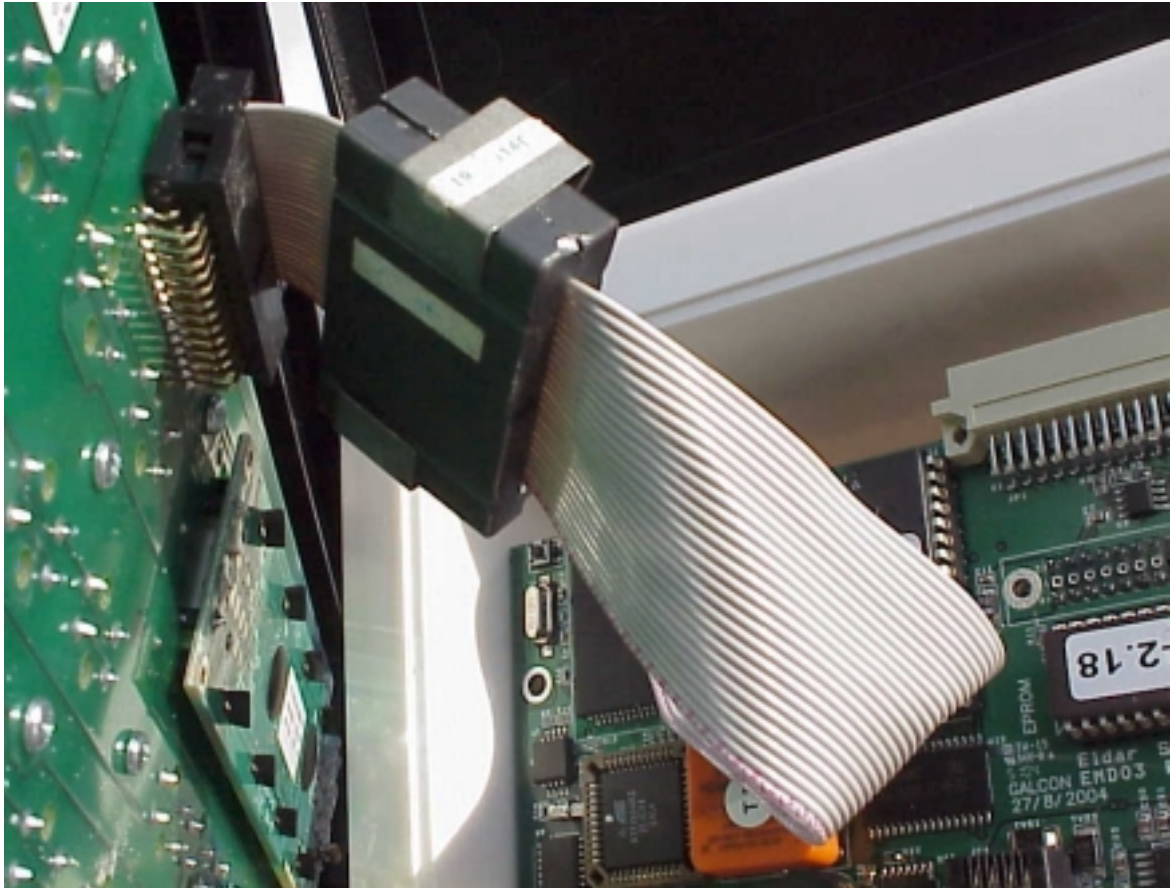
**Photo 5.**  
**Radiated emission test setup.**  
**Load's internal view**

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**Photo 6.**

**Radiated emission test setup. EUT's internal view  
Ferrite bead P/N 0443166651 installed on the Flat cable to the LCD Monitor**



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**Photo 7.**  
**Radiated emission test setup**  
**EUT's internal view**  
**Ferrite bead P/N 0443164151**  
**installed on the EUT's power cable near Power Supply Card**