

# AN 2050N SERIES

## SINGLE-LINE ARTIFICIAL NETWORKS (AN) FOR EMISSION MEASUREMENTS IN BATTERY SUPPLY SYSTEMS



### FOR TESTS ACCORDING TO ...

- › CISPR 25
- › ISO 11452-4
- › ISO 7637-1:1990
- › ISO 7637-2:2004
- › ISO 7637-2:2011

### AN 2050N SERIES - ARTIFICIAL NETWORKS (AN) FOR EMISSION MEASUREMENTS IN BATTERY SUPPLY SYSTEMS




The EM TEST single-line Artificial Networks, type AN 2050N series, are used for the simulation of the impedance of the wiring harness particularly for testing the interference voltage in HF-VHF-area in the battery supply system (e.g. in the automotive, aerospace and military area).

They are designed to meet the specifications as per CISPR 25/ISO 11452-4 or ISO 7637.

#### HIGHLIGHTS

- › Artificial Network as per ISO 7637 or CISPR 25/ISO 11452-4
- › Frequency range: 100kHz - 108MHz
- › DC voltage max. 400V
- › AC voltage max. 250V (up to 1kHz)
- › Current max. 50A AC/DC cont.
- › Insertion loss < 3dB
- › Compact design

#### APPLICATION AREAS

-  AUTOMOTIVE
-  AVIONICS
-  MILITARY

## TECHNICAL DETAILS

### AN 2050N SERIES

#### MODEL OVERVIEW

AN 2050N	Artificial Network as per ISO 7637-2:2011 and ISO 7637-1:1990
AN 2050N1	Artificial Network as per CISPR 25 (with 1uF) and ISO 11452-4

#### TECHNICAL DATA

Frequency range	0.1 to 108MHz
Operation voltage	400V DC / 250V AC (up to 1kHz)
Operation current	50A continuous
Impedance	50ohm // 5uH +/-10% (AN 2050N) 50ohm // 5uH + 1uF (AN 2050N1)
Insertion loss	< 3dB DUT to receiver output
Inductance	5uH +/-10% (air-core coil)
Coupling capacitor	0.1uF

#### MEASUREMENT

Power supply/DUT connection	High-current connector up to 100A 4mm safety lab connector up to 32A
Test output	BNC-connections

#### GENERAL DATA

Dimensions	180 x 105 x 104mm (L x W x H) (without connecting socket)
Weight	approx. 1kg

#### OPTIONS

BS 200N80	Electronic switch, 60V/80A, for the measurement of transient pulse emission as per ISO 7637
-----------	---

# COMPETENCE WHEREVER YOU ARE



## CONTACT EM TEST DIRECTLY

### Switzerland

EM TEST (Switzerland) GmbH › Sternenhofstraße 15 › 4153 Reinach › Switzerland  
Phone +41 (0)61/7179191 › Fax +41 (0)61/7179199  
Internet: [www.emtest.ch](http://www.emtest.ch) › E-mail: [sales.emtest@ametek.com](mailto:sales.emtest@ametek.com)

### Germany

EM TEST GmbH › Lünener Straße 211 › 59174 Kamen › Deutschland  
Phone +49 (0)2307/26070-0 › Fax +49 (0)2307/17050  
Internet: [www.emtest.com](http://www.emtest.com) › E-mail: [info.emtest@ametek.de](mailto:info.emtest@ametek.de)

### France

EM TEST FRANCE › Le Trident - Parc des Collines › Immeuble B1 - Etage 3 › 36, rue Paul Cézanne › 68200 Mulhouse › France  
Phone +33 (0)389 31 23 50 › Fax +33 (0)389 31 23 55  
Internet: [www.emtest.fr](http://www.emtest.fr) › E-mail: [info@emtest.fr](mailto:info@emtest.fr)

### Poland

EM TEST Polska › ul. Ogrodowa 31/35, 00-893 Warszawa › Polska  
Phone +48 (0)518 64 35 12  
Internet: [www.emtest.com/pl](http://www.emtest.com/pl) › E-mail: [info\\_polska.emtest@ametek.de](mailto:info_polska.emtest@ametek.de)

### USA / Canada

EM TEST USA › 9250 Brown Deer Road › San Diego › CA 92121  
Phone +1 (858) 699 1685 › Fax +1 (858) 458 0267  
Internet: [www.emtest.com](http://www.emtest.com) › E-mail: [sales.emtest@ametek.com](mailto:sales.emtest@ametek.com)

### P.R. China

E & S Test Technology Limited › Rm 913, Leftbank › No. 68 Bei Si Huan Xi Lu › Haidian District › Beijing 100080 › P.R. China  
Phone +86 (0)10 82 67 60 27 › Fax +86 (0)10 82 67 62 38  
Internet: [www.emtest.com](http://www.emtest.com) › E-mail: [info@emtest.com.cn](mailto:info@emtest.com.cn)

### Republic of Korea

EM TEST Korea Limited › #405 › WooYeon Plaza › #986-8 › YoungDeok-dong › Giheung-gu › Yongin-si › Gyeonggi-do › Korea  
Phone +82 (31) 216 8616 › Fax +82 (31) 216 8616  
Internet: [www.emtest.co.kr](http://www.emtest.co.kr) › E-mail: [sales@emtest.co.kr](mailto:sales@emtest.co.kr)

Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Technical data subject to change without further notice.