

# A/D Probe Converter

In connection with the FieldMan® field meter

With the A/D Probe Converter it is possible to use NBM probes in conjunction with the FieldMan. The A/D Probe Converter is connected as an interface between the probe and the FieldMan. The signal of the analog NBM probe is converted into digital information and forwarded to the FieldMan. There is no probe limitation. The existing NBM probes can be used with the FieldMan through the A/D Probe Converter. Alternatively, NBM probes can also be connected to the Digital Broadband Probe Repeater by means of the A/D Probe Converter.

- › Very little influence on the measurement result
- › The majority of the FieldMan product portfolio can be used
- › Compatible with the Digital Broadband Probe Repeater
- › Automatic offset correction from -20 °C to +50 °C
- › Each A/D Probe Converter is delivered with a CAL certificate

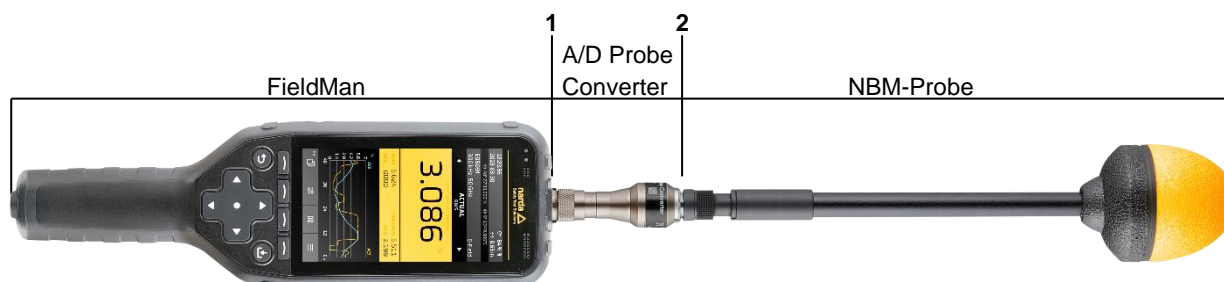


# Specifications <sup>1</sup>

| General data and product features |   |
|-----------------------------------|---|
| Compatibility                     | FieldMan 2460/01 ; Digital Broadband Probe Repeater 2464/01 ; all NBM probes          |
| Frequency range                   | Covers the frequency range of all NBM probes  |
| Recommended calibration interval  | 24 months   |
| Input (analog)                    | Connection for any NBM probe  |
| Output (digital)                  | Connection to the FieldMan  |
| RF- immunity                      | 1000 V/m (100 kHz to 60 GHz); can be below the permissible measuring range of a probe |
| Power Supply                      | Supplied via the FieldMan   |
| Dimensions (L x D)                | 82 mm x 25 mm   |
| Weight                            | 100 g   |
| Country of origin                 | Germany   |

| Environmental conditions    |  |  |
|-----------------------------|--|--|
| Application area            | Suitable for outdoor use and an operating altitude of up to 5000 m |  |
| Operating temperature range | -20 °C to +50 °C   |  |
| Humidity                    | < 29 g/m <sup>3</sup> (< 93 % RH at +30 °C), no condensation       |  |
| Intrusion protection        | IP54 (with screwed on probe / adapter)                             |  |
| Climatic conditions         | Storage  | 1K5 (IEC 60721-3) -20 °C to +50 °C             |
|                             | Transport  | 2K3 (IEC 60721-3) -30 °C to +70° C             |
|                             | Operating  | 7K2 (IEC 60721-3) extended to -20 °C to +50 °C |

| Device connections |   |
|--------------------|---|
| 1                  | Digital connection for the FieldMan     |
| 2                  | Connection for analog probes of the NBM |



<sup>1</sup> Unless otherwise noted specifications apply at reference condition: device in far-field of source, ambient temperature 23±3 °C, relative air humidity 25% to 75%, sinusoidal signal, probe sampling rate 5 Hz.

# Definitions and Conditions

## Conditions

Unless otherwise noted, specifications apply after 30 minutes warm-up time within the specified environmental conditions. The product is within the recommended calibration cycle.

## Specifications with limits

These describe product performance for the given parameter covered by warranty. Specifications with limits (shown as <, ≤, >, ≥, ±, max., min.) apply under the given conditions for the product and are tested during production, considering measurement uncertainty.

## Specifications without limits

These describe product performance for the given parameter covered by warranty. Specifications without limits represent values with negligible deviations, which are ensured by design (e.g. dimensions or resolution of a setting parameter).

## Typical values (typ.)

These characterize product performance for the given parameter that is not covered by warranty. When stated as a range or as a limit (shown as <, ≤, >, ≥, ±, max., min.), they represent the performance met by approximately 80% of the instruments. Otherwise, they represent the mean value. The measurement uncertainty is not taken into account.

## Nominal values (nom.)

These characterize expected product performance for the given parameter that is not covered by warranty. Nominal values are verified during product development but are not tested during production.

## Uncertainties

These characterize the dispersion of the values attributed to the measurands with an estimated confidence level of approximately 95%. Uncertainty is stated as the standard uncertainty multiplied by the coverage factor k=2 based on the normal distribution. The evaluation has been carried out in accordance with the rules of the "Guide to the Expression of Uncertainty in Measurement" (GUM).

# Ordering Information

| Designation  | Part number |
|--|-------------|
| A/D Probe Converter for NBM probes   | 2465/01     |
| Field meter FieldMan   | Part number |
| FieldMan Basic Set   | 2460/101    |
| Optional accessories   | Part number |
| Digital Broadband Probe Repeater – <i>Charger and optical cable not included</i> – | 2464/01     |

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