Pre-Contractual Data Information: Connected Product (EU Data Act)

Product	8588A, 8588A/ADV, 8588A/NULL METER
Firmware / HW	Firmware: obtain current version via *IDN? SCPI query or Setup Menu > System Settings on instrument front panel. Hardware: obtain PCB revision from instrument rear label or service records
Connectivity / Interfaces	GPIB (IEEE-488); USB 2.0 Device/USBTMC (USBTMC-USB488, Type B connector, NI-VISA compatible); LAN/Ethernet 10/100BASE-T (TCP/IP socket, DHCP or static IP, port 3490 default). One remote control interface active at a time (selectable via front panel menu).
Contact	privacypolicy@fluke.com

1) Product data

- **Physical measurements:** Electrical properties including: DC & AC voltage; DC & AC current (external shunt on 8588A only); resistance; capacitance; frequency / period; temperature via thermocouple and RTD; RF power (via external sensor); digitize (high-speed voltage or current waveform capture).
  - 8588A/ADV adds advanced RF power measurement via an external RF power sensor.
  - 8588A/NULL METER is configured for high-accuracy null-detection applications.
- **Device identifiers:** Model number (8588A or 8558A) and serial number, readable over remote interfaces with the *IDN? SCPI query; instrument options with the *OPT? query.
- **Status / telemetry:** Instrument configuration and active measurement function, range, and resolution, readable over remote interfaces.
- **Events & diagnostics:** SCPI error/event queue (IEEE-488.2 status registers and SCPI status byte); self-test results; calibration status and adjustment history
- **Configuration values:** Remote interface configuration parameters; instrument configuration and active function range.

Estimated volume (typical): Over the remote interface, <1 KB per measurement. Digitize capture buffer up to system memory limits (total non-volatile data <16 MB).

Collection Frequency: Continuous measurement rate to internal memory can be controlled by the internal trigger system, or on-event (user-initiated measurements and SCPI commands only); measurements are read back in response to remote request commands.

For general operational guidance, please refer to the product’s user manual.

2) Data formats

- **On device / in transit (remote interfaces):** All SCPI command responses are 7-bit ASCII. Measurement request responses are either scientific floating-point ASCII strings or 16/32-bit binary format, transmitted over GPIB, USBTMC (USB 2.0 Type B), or Ethernet TCP/IP socket (one interface active at a time).
- **On export:** Measurement data can be retrieved via GPIB, USBTMC, or Ethernet remote interfaces. Measurement data can be transferred to a USB memory stick.

3) Storage & retention

- **On-device storage:** Non-volatile internal memory retains: remote interface parameters; some instrument configuration; external shunt asset properties (8588A only); stored measurements. Volatile memory holds the active function and range, and stored measurements, which are lost on power cycle.
- **Cloud / servers:** No cloud or internet connectivity. The Ethernet interface is for local-network instrument control only (SCPI over TCP/IP socket). No data is transmitted to Fluke servers during normal operation.
- **Retention:** All non-volatile configuration data is retained indefinitely until overwritten. The volatile measurement buffer and the active function/range are cleared at power cycle.

4) User access, export & erase

- **Where:** Front panel display and menu system (local). Remote interface via Ethernet TCP/IP socket, USB Device (USBTMC-USB488), or GPIB using PyVISA from **www.pyvisa.com/docs/windows-setup**.
- **How:** Local: front-panel menus for viewing configuration, calibration status, and measurement results. Remote: SCPI queries for all configuration and measurement data (*IDN?, *OPT?, CONFigure?, SENSe queries, STATus queries) using Python or NI-MAX over LAN/USB/GPIB. Programmers Manual at **www.fluke.com/en-gb/product/calibration-tools/electrical-calibration/bench-multimeters/8558a**.
- **Export formats:** ASCII for responses to SCPI parameter queries; ASCII or binary for measurements.
- **Limits/rate-limits (if any):** Remote interface throughput is governed by instrument command processing speed and controller response.
- **Erasure:** Configuration data can be reset to defaults via the *RST SCPI command or the front-panel menu. Blocks of measurements and external shunt information (8588A) can be deleted with SCPI commands.

5) Data Sharing with Third Parties

To the extent Fluke has access to the relevant data, you may authorize a third party to access such data by contacting Fluke using the details set out above, specifying the recipient and purpose of the data sharing. You may view and revoke authorized data transfers at any time via the same contact details.

Where data is stored locally on your device or within your own environment and is not accessible to Fluke, you are responsible for granting third-party access directly.

6) Terms of service, contract term & termination

As provided in the quote, order form, or agreement between you and Fluke. If you purchased the product through a distributor or reseller, the terms of service, contract term and termination are as agreed between you and that seller.

7) How Data Holder uses the data

If Fluke has access to any data generated through your use of a Fluke connected product or related service, this will be used in accordance with the applicable agreement between you and Fluke, through which you purchase Fluke’s products or services. The relevant Fluke entity details will be specified in the quote or order form as applicable.

Fluke may engage third parties to act as service providers and perform certain tasks on its behalf, such as processing or storing data generated in connection with your use of a Fluke connected product or related service. For more information, please visit **https://www.fluke.com/en-us/fluke/privacy-policy**

8) Trade secrets

No trade secrets are contained in the data.

9) Right to lodge a complaint

If you have a complaint relating to your Fluke connected product or related service, or the Data Act in general, you can contact Fluke using the details set out above. You also have the right to lodge a complaint with the relevant competent authority designated under Article 37 of the EU Data Act, in the Member State of your habitual residence, place of work or establishment.

Reference Documents

- Remote Programmer's Manual (8588A/8558A): **https://media.fluke.com/e8f48daf-3ee8-406d-b67d-b3080178a447_original%20file.pdf**

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