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

Product	4180-256, 4180-APRT, 4181-256
Firmware / HW	Firmware: 4180 v1.14, 4181 v1.15 (latest published). HW: digital controller, platinum RTD sensor; Peltier (4180) / triac heater (4181)
Connectivity / Interfaces	RS-232 serial (DB-9)
Contact	privacypolicy@fluke.com

1) Product data

- **Physical measurements:** Target/surface temperature measured by the internal control sensor (precision platinum RTD); range −15 °C to 120 °C (4180) / 35 °C to 500 °C (4181)
- **Device identifiers:** Model number, serial number, and firmware version (on-screen via System Menu > System Information; model and serial number also on the rear label)
- **Status / telemetry:** Current block temperature, active set-point, heating/cooling/cutout status, stability status, selected IR-thermometer emissivity (IRT ε) and calibration wavelength
- **Events & diagnostics:** Cutout (soft/hard) condition, abnormal-temperature/sensor fault, power-on self-test result, and stable-limit alarm
- **Configuration values:** Set-point, temperature scan rate, IR-thermometer emissivity (0.90–1.00), soft cutout, eight stored set-point presets, baud rate, and calibration-program parameters
- **Other:** Factory IR-calibration constants exist in the instrument but are protected and not customer-accessible (changeable only by authorized personnel)

Estimated volume (typical): <1 KB per RS-232 query/response; no continuous or background logging

Collection Frequency: On-event only (user-initiated front-panel actions and RS-232 queries)

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

2) Data formats

Users read live values on the front-panel LCD and can query measurements and settings over the RS-232 serial interface; there is no file export.

- **On export:** ASCII text over RS-232 (no CSV/JSON/XML file export). Remote command set documented in the 4180/4181 Technical Guide (**www.flukecal.com**).
- **On device/in transit:** ASCII serial strings over RS-232; no on-device file storage, no removable media, and no network interface.

3) Storage & retention

- **On-device storage:** Yes. Non-volatile memory retains configuration (set-points, emissivity, scan rate, cutout, baud rate) and protected factory IR-calibration constants; there is no time-series measurement logging.
- **Cloud / servers:** No. No network or cloud connectivity; no data is transmitted to Fluke servers.

- **Retention:** Configuration and calibration constants are retained indefinitely until changed or reset; live measurements are not stored (transmitted on demand only).
- **Deletion/anonymization:** Configuration is resettable to defaults via the front panel; no personal data is collected, so no anonymization applies.

4) User access, export & erase

- **Where:** Front-panel LCD display and keypad (local), and the RS-232 serial remote command interface.
- **How:** Read values on the display, or connect a PC with the supplied serial cable and issue RS-232 query commands to retrieve measurements and settings.
- **Export formats:** ASCII text strings via RS-232.
- **Limits/rate-limits:** Throughput is limited by the selected RS-232 baud rate (1200–38400); no removable-media or network export.
- **Request erasure:** Reset configuration to defaults via the front-panel menus; no personal data is stored to erase.

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.

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