

TECHNICAL DATA

Fluke 902 FC True-rms Wireless HVAC Clamp Meter



If you are an HVAC technician, you need a reliable clamp meter to keep up with your demanding world. The Fluke 902 FC delivers the features necessary to diagnose and repair HVAC systems. Additionally, with Fluke Connect® you can trend measurements, create and send reports right from the field, safely stay away from live equipment while taking measurements, and more.

Measurement capability

- 600 A ac current measurement
- 600 V ac and dc voltage measurement
- Temperature measurement from -10 °C to 400 °C (14 °F to 752 °F)
- 1000 µF capacitance measurement
- DC Current measurement to 200 µA
- True-rms voltage and current for accurate measurements on non-linear signals
- Resistance measurement to 60 kΩ
- Min and max recording to capture variations automatically

Features

- Get more done faster and safer than before by connecting your meter to Fluke Connect and capture measurements wirelessly. Save your measurement to Fluke Cloud™ storage for further analysis or comparison to earlier inspection data.
 - Read measurements on your phone at a safe distance, wearing less PPE while your meter takes the arc blast zone risks, not you.
 - Instantly trend and monitor measurements live on your phone screen for better troubleshooting results.



LOG AND TREND MEASUREMENTS

Transmit results wirelessly via Fluke Connect®

SAFETY RATING

CAT III 600V / CAT IV 300V

BACKLIT DISPLAY

For working in low-lighting spaces

HVAC SPECIFIC FEATURES

Extended resistance range to measure a broad set of thermistors, µA DC current range to measure flame sensor current, contact temperature, and capacitance

WARRANTY

Three-years





Features (continued)

- Create and email reports right from the field. When team collaboration is needed use Fluke Connect ShareLive™ video call to share live measurements and discuss next steps with colleagues.
- Don't risk transcription errors, save your measurements directly to your meter from your smartphone with the press of a button.
- CAT III 600V / CAT IV 300V safety rating
- TPAK magnetic hanging strap (optional) allows you to conveniently hang the meter while using the probes
- Ergonomic design fits in your hand and can be used while wearing personal protective equipment
- Large, easy-to-read backlit display
- Three-year warranty
- Soft carrying case
- Auto shut-off maximizes battery life so the meter works when you need it
- Measurement range feature automatically changes switch positions

Specifications

| General specifications | | | | |
|------------------------|-----------------------------------|------------|---|--|
| Function | Range | Resolution | Accuracy | Crest factor (50Hz or 60Hz) |
| A ac (via Jaw) | 60/600 A | 0.01/0.1 A | 2.0 % ± 5 digit (45-65 Hz) 2.5 % ± 5 digit (65-400 Hz) | 2.5 at 220 A 3.0 at 180 A >1.4 at 600 A Add 2 % kΩ for CF>2 |
| V ac | 600 V | 0.1 V | 1.5 % ± 5 digits (45-400Hz) | |
| V dc | 600 V | 0.1 V | 1 % ± 5 digits | |
| Ohms | 600/6,000/60,000 Ω | 0.1/1/10 | 1 % ± 5 digits | |
| µA | 200 µA | 0.1 µA | 1 % ± 4 digits | |
| Contact temperature | 10 to 400 °C (14 °F to 752 °F) | 0.1 C/F | 1 % ± 8 digits | |
| Capacitance | 100.0/1000 µF | 0.1/1 µF | 1% +/- 4 digits | |
| Continuity beeper | | | | |
| Beeper volume | 75 dBA nom. 15 cm from case front | | | |
| On threshold | <=30 Ω | | | |

Specifications (continued)

| Mechanical and general specifications | |
|---|---|
| Maximum voltage between any terminal and earth ground | 600 V |
| Battery type | 2 AA alkaline batteries, NEDA 15A, IEC LR6 |
| Temperature | Operating: -10 °C to +50 °C (14 °F to + 122 °F) Storage: -40 °C to +60 °C (-40 °F to + 140 °F) |
| Operating humidity | Non-condensing <10 °C (50 °F) |
| | ≤90 % RH @ 10 °C to 30 °C (50 °F to 86 °F) |
| | ≤75 % RH @ 30 °C to 40 °C (86 °F to 104 °F) |
| | ≤45 % RH @ 40 °C to 50 °C (104 °F to 122 °F) |
| Altitude | Operating: 3,000 m (9,842 ft) Storage: 12,000 m (39,370 ft) |
| Dimensions | 230 mm x 83.7 mm x 45.4 mm (9.06 in x 3.30 in x 1.39 in) |
| Weight (meter only) | 419 g (14 oz) |
| Safety | IEC 61010-1, Pollution Degree 2 IEC 61010-2-032: CAT III 1000 V / CAT IV 600 V IEC 61010-2-033: CAT III 1000 V / CAT IV 600 V |
| IP Rating | IEC 60529: IP30, non-operating |
| Radio Frequency Certification | FCC ID:T68-FBLE IC:6627A-FBLE |
| Electromagnetic Compatibility (EMC) | International: IEC 61326-1: Portable, Electromagnetic Environment, IEC 61326-2-2 CISPR 11: Group 1, Class A Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment) USA (FCC): 47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103. |
| Temperature coefficients | Add 0.1 × specified accuracy for each degree C above 28 °C or below 18 °C |

Ordering information

902 FC HVAC Clamp Meter

Included

- 902 FC HVAC Clamp Meter
- One pair TL75 Test leads
- One 80BK Integrated DMM Temperature Probe
- Two AA alkaline batteries
- Soft carrying case
- Users' manual
- Statement of Calibration Practices

Optional accessories

TPAK Magnetic Hanging Strap



Set up and sustain preventive maintenance practices with ease to help you oversee your complex world with the Fluke Connect® system of software and over 40 wireless test tools.

- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- Save measurements to the Fluke Cloud™ and associate with an asset so your team can consult both historical and current measurements from one location.
- Collaborate with ease by sharing your measurement data with team members with ShareLive™ video calls and emails.
- Wireless one-step measurement transfer with AutoRecord™ measurements eliminates transcription errors, clipboards, notebooks and multiple spreadsheets.
- Generate reports with multiple measurement types to provide status or next step recommendations.



Fluke. *Keeping your world up and running.®*



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