

# TECHNICAL DATA

## Fluke 902 FC True-rms Wireless HVAC Clamp Meter



### 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,  $\mu$ A DC current  
range to measure flame sensor current,  
contact temperature, and capacitance

### WARRANTY

Three-years

**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  $\mu$ F capacitance measurement
- DC Current measurement to 200  $\mu$ A
- True-rms voltage and current for accurate measurements on non-linear signals
- Resistance measurement to 60 k $\Omega$
- 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.





### 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)<br>2.5 % ± 5 digit (65-400 Hz) | 2.5 at 220 A<br>3.0 at 180 A<br>>1.4 at 600 A<br>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)<br>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)<br>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<br>IEC 61010-2-032: CAT III 1000 V / CAT IV 600 V<br>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<br><br>Korea (KCC): Class A Equipment (Industrial Broadcasting & Communication Equipment)<br><br>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.



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