FLUKE®

2052R/2062R
Wire Tracer Receiver

2000T
Wire Tracer Transmitter

Product Specifications

BC
2/2023 (English)

General Specifications

	2052R	2062R	2000T
Size	(18.3 x 7.5 x 4.3) cm ~(7.2 x 3.0 x 1.7) in	(27.8 x 11.3 x 6.5) cm ~(10.9 x 4.4 x 2.6) in	(18.3 x 9.3 x 5) cm ~(7.2 x 3.7 x 2.0) in
Weight	0.57 kg (~1.26 lbs)	0.54 kg (~1.2 lbs)	0.57 kg (~1.26 lbs)
Signal indications	Numeric, bar graph display, audible beep, LED		LEDs, audible beep
Sensor response time	500 ms		--
Battery voltage monitoring	5 s		
Line voltage monitoring	--		1 s
Range detection, open air			
SmartSensor mode, direction indication	--	≤15 cm (6 in), 230 V ac, high mode, sensitivity level 2	--
Tip sensor mode			
Pinpoint accuracy	5 cm (2.0 in)		
Max distance			
Energized mode	≤6.1 m (20 ft)		
De-energized mode	≤4.5 m (14.7 ft)		
Display			
Size	LCD 6.5 cm (2.5 in)	LCD 8.9 cm (3.5 in)	LEDs
Visible area (VA) (W x H)	~(37 x 49) mm ~(1.5 x 2.0) in	~(70 x 50) mm ~(2.75 x 2.0) in	--
Resolution	240 (RGB) x 320 px	480 (RGB) x 320 px	
Type	Color TFT LCD		LEDs
Backlight	Yes		--
Booting time	≤3 s	≤2 s	≤2 s

Electrical Specifications

	2052R	2062R	2000T
Battery	4 x AA, IEC LR6, alkaline or NiMH rechargeable		8 x AA, IEC LR6, alkaline or NiMH rechargeable
Battery life			
Trace mode	~16 hrs	~20 hrs	--
High/low mode	--		~25 hrs
Loop mode	--		~18 hrs
Low battery indicator	Yes		
Power consumption, typical			
Trace mode	110 mA		--
High/low mode	--		70 mA
Loop mode with Clamp	--		90 mA
No signal transmission	--		10 mA
⚠**Fuse**	--		1 A, 700 V, fast-acting, 6 mm x 32 mm, 50 kA interrupt rating
Operating voltage	600 V ac/dc		
Operating frequency			
Energized/loop mode	6.25 kHz		
De-energized mode	32.77 kHz		
Automatic voltage detection			
Energized mode	See NCV detection		≥35 V ac
De-energized mode			<35 V ac
NCV detection (40 Hz to 400 Hz) sensitivity			
Maximum	90 V, ≤2.0 m (6.5 ft)		--
Minimum	600 V, ≤1.0 cm (0.4 in)		--
Signal current output (typical)			
Energized mode			
High mode	--		60 mA RMS[1]
Low mode			20 mA RMS[1]

	2052R	2062R	2000T
De-energized mode			
High mode	--		110 mA RMS[2]
Low mode			40 mA RMS[2]
Loop mode			
Test leads	--		160 mA RMS[2]
i400 AC Clamp, one wind of wire over the clamp			385 mA RMS[2]
Signal voltage output (nominal)			
Energized mode			
High mode	--		14 W @ 230 V ac/50 Hz, 3.33 kΩ @ 230 V ac[3]
Low mode			4.6 W @ 230 V ac/50 Hz, 11.5 kΩ @ 230 V ac[3]
De-energized mode			
High mode	--		31 V RMS, 140 Vp-p[4], 0.86 W @ 1 kΩ load[5]
Low mode			27.5 V RMS, 120 Vp-p[4], 0.1 W @ 1 kΩ load[5]
Loop mode			
Test leads	--		32 V RMS, 140 Vp-p[4], 0.87 W @ 1 kΩ load[5]
i400 AC Clamp, one wind of wire over the clamp			31 mV[4], 0.89 W @ 1 Ω load[5]

[1] Sink current
[2] Short circuit current
[3] Sink power
[4] Open circuit voltage
[5] Output power

Environmental Specifications

	2052R	2062R	2000T
Temperature			
Operating	-20 °C to 50 °C (-4 °F to 122 °F)		
Storage	-20 °C to 70 °C (-4 °F to 158 °F), without batteries		
Relative humidity			
Operating	95 %: 10 °C to <30 °C (50 °F to <86 °F) 75 %: 30 °C to <40 °C (86 °F to <104 °F) 45 %: -20 °C to <10 °C or 40 °C to 50 °C (-4 °F to <50 °F or 104 °F to 122 °F), non-condensing		
Storage	<95 %, non-condensing, without batteries		
Altitude			
Operating	2000 m (~6562 ft)		
Storage	12 000 m (~39 371 ft)		
IP rating	IP40		
Drop test	1 m (~3.28 ft)		
Transient protection	--		8.00 kV (1.2/50 µs surge)
Safety	IEC 61010-1: Pollution Degree 2 IEC 61010-2-030: CAT IV 600 V		
Electromagnetic Compatibility (EMC)			
International	IEC 61326-1: Portable Electromagnetic Environment, CISPR 11: Group 1, Class A *Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.* *Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.* *Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.*		
Korea (KCC)	Class A Equipment (Industrial Broadcasting & Communication Equipment) *Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.*		
USA (FCC)	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.		