8. Specification

5. Specification	
Voltage test	
Voltage range	12690V AC/DC
Peak current	Is<3.5mA (at 690V)
Measurement Duty	30s ON (operation time)
Internal battery	240s OFF (recovery time) Approx. 80 mA (battery 3V,
consumption	measuring 690V AC)
Battery life	Approx. 1000 operations
•	(30s ON / 240s OFF duty)
LED (KT170 / KT171)	
Nominal voltage	12/24/50/120/230/400/690V AC (16400Hz), DC(±)
Tolerance (Threshold voltage)	Light on at more than
(Tilleshold Vollage)	: 7±3V (12V LED) : 18±3V (24V LED)
	: 37.5±4V (50V LED)
	: 75%±5% of nominal voltage
	(120/230/400/690V LED)
Response time	< 0.6s at 100% of each nominal
LOD / c L- L/T474 \	voltage
LCD (only KT171)	2221/(2.2222.2)/(2.4)/
Range / Resolution (Auto-range)	300V (6.0299.9) / 0.1V 690V (270759ac/710dc) / 1V
Accuracy (23±5°C)	±1.5V (7100V) ±1%±5dgt (100690V)
	AC(16400Hz), DC(±)
Over limit indication	"OL"
Response time	Approx. 1s at 90%-110%
	of each voltage
Single-pole phase to	est
Voltage range	100690V AC (50/60Hz)
Phase rotation test	
System	Three-phase 4-wire system
·	200690V phase-to-phase
	(100400V earth-to-phase) AC 50/60Hz
Phase range	120±5 degree
Continuity test	
Detection range	0400kΩ + 50%(23±5°C)
Test current	Approx.1.5 μ A (battery 3V, 0 Ω)
Internal battery	Approx. 80 mA
consumption	(battery 3V, 0Ω)
Reference condition	1
Reference condition Battery	3V (IEC LR03 1.5V x 2)
	3V (IEC LR03 1.5V x 2) -1555°C operation
Battery	3V (IEC LR03 1.5V x 2) -1555°C operation -2070°C storage (KT170)
Battery	3V (IEC LR03 1.5V x 2) -1555°C operation
Battery	3V (IEC LR03 1.5V x 2) -1555°C operation -2070°C storage (KT170) -2060°C storage (KT171)
Battery Temperature	3V (IEC LR03 1.5V x 2) -1555°C operation -2070°C storage (KT170) -2060°C storage (KT171) No condensation
Battery Temperature Humidity	3V (IEC LR03 1.5V x 2) -1555°C operation -2070°C storage (KT170) -2060°C storage (KT171) No condensation Max 85% RH
Battery Temperature Humidity Used Location	3V (IEC LR03 1.5V x 2) -1555°C operation -2070°C storage (KT170) -2060°C storage (KT171) No condensation Max 85% RH Altitude up to 2000m
Battery Temperature Humidity Used Location Safety	3V (IEC LR03 1.5V x 2) -1555°C operation -2070°C storage (KT170) -2060°C storage (KT171) No condensation Max 85% RH
Battery Temperature Humidity Used Location Safety	3V (IEC LR03 1.5V x 2) -1555°C operation -2070°C storage (KT170) -2060°C storage (KT171) No condensation Max 85% RH Altitude up to 2000m IEC(EN)61010-1:2010(2010) IEC(EN)61243-3:2009(2010) IEC(EN)61010-031:2008(2008)
Battery Temperature Humidity Used Location Safety Standard	3V (IEC LR03 1.5V x 2) -1555°C operation -2070°C storage (KT170) -2060°C storage (KT171) No condensation Max 85% RH Altitude up to 2000m IEC(EN)61010-1:2010(2010) IEC(EN)61243-3:2009(2010) IEC(EN)61010-031:2008(2008) IEC(EN)61557-7:2007(2007)
Battery Temperature Humidity Used Location Safety Standard Category	3V (IEC LR03 1.5V x 2) -1555°C operation -2070°C storage (KT170) -2060°C storage (KT171) No condensation Max 85% RH Altitude up to 2000m IEC(EN)61010-1:2010(2010) IEC(EN)61243-3:2009(2010) IEC(EN)61010-031:2008(2008) IEC(EN)61557-7:2007(2007) CAT.III 690V, CAT.IV 600V
Battery Temperature Humidity Used Location Safety Standard	3V (IEC LR03 1.5V x 2) -1555°C operation -2070°C storage (KT170) -2060°C storage (KT171) No condensation Max 85% RH Altitude up to 2000m IEC(EN)61010-1:2010(2010) IEC(EN)61243-3:2009(2010) IEC(EN)61010-031:2008(2008) IEC(EN)61557-7:2007(2007)