



YCCI-9901

Phase & Feeder Identifier



This equipment is used to help utility to analyze the basic information of end users, it can analyze and identify the supplied power of a network point (end user) come from which phase, feeder and transformer zone. The YCCI-9901 Phase and Feeder Identifier consists of two parts: Central Device (CD) and Line Device (LD). The CD will be connected to low voltage side of transformer, and LD will be carried by operator and installed to network points that will be analyzed.

This equipment complies low voltage directive 2014/35/EU, electromagnetic compatibility 2014/30/EU, and are compliant with: EN50178:1998, EN55011:2016+A1:2017, EN61010-1:2010, EN61000-3-2:2014, EN61000-3-3:2013, EN60529.

Test functions

- ✧ The CD will be connected to the secondary side of the transformer, and send out low frequency zero crossing signal, the LD will receive this signal and identify the transformer's ID and phase.
- ✧ LD sends current pulse signal, CD will be connected to the low voltage side of the transformer or input side of feeders and will receive and identify the feeder, phase and transformer zone of the end users.
- ✧ And CD can actively send signal to the LD who is connected to the same line and LD will receive and display the signal with the info of ID, phase and etc.
- ✧ Many units CD can work in the same line. CD and LD can be matched via setting match code, and then LD will be selected to receive signals sent by CD.
- ✧ Do statistics and analyze to the test results and display the loads quantities (energy meter quantity) connected to the transformer's phases.
- ✧ Support group working: several units CD and several units LD can work at the same time.
- ✧ Display 3~51 times odd harmonics of the LD network and save total harmonics value.
- ✧ Display the voltage waveform of the network that LD tested.
- ✧ Use No.1 No.2 and No.3 Rogowski coils to test current. The CD can display following parameters of transformer secondary side: voltage, current, phase angle, active power, reactive

power, PF, vectogram and etc.

- ✧ Can set the ID for CD to distinguish the tested transformer.
- ✧ When connect voltage cable for LD, current clamp (Rogowski coil) for CD, no need to attention the direction or polarity when testing.
- ✧ CD has the functions of vectogram display and phase angle calculation, and can remind operation the phase sequence is right or not.
- ✧ The CD can be equipped with Rogowski coil, and max quantities is 12.
- ✧ Device protected by fuse: CD 16A, LD10A
- ✧ Power supply of the LD is battery.

Specification

Working voltage:

phase to phase 400Vac ($\pm 10\%$),

phase to phase 230Vac ($\pm 10\%$)

Phase to neutral 230Vac ($\pm 10\%$)

CD: 3X230/400Vac; LD:230Vac;

Rogowski coil range: 600A

Frequency: 50Hz;

Temperature: $-10 \sim +45^{\circ}\text{C}$;

CD Power consumption: each phase $\leq 2\text{W}$ (no pulse/current transmission)

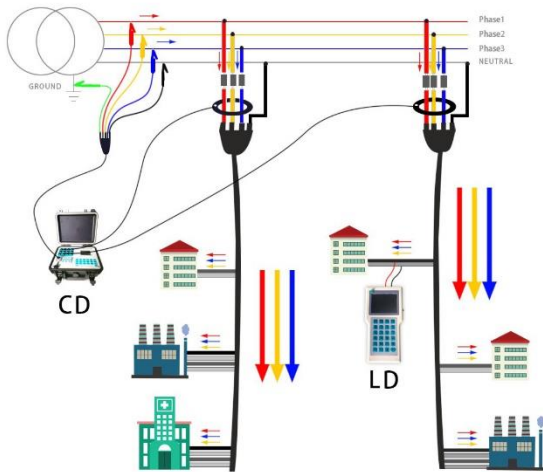
LD Power consumption: $\leq 1\text{W}$ (no pulse/current transmission)

LD's instantaneous max pulse current: 5A;

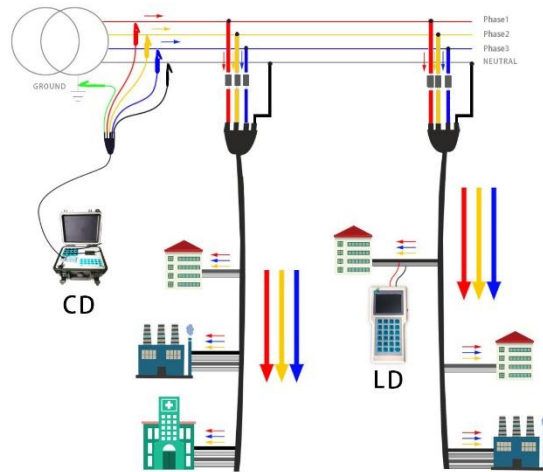
Test range: radius of transformer power supply zone (max distance is less than 3000m~6000m)



【Feeder Test & Phase Test】



Test with CD + LD + Feeder
 Test results will indicate network point belongs to:
 which phase, which feeder, which transformer



Test with CD + LD
 Test results will indicate network point belongs to:
 which phase, which transformer

【Group working for Phase Test】

