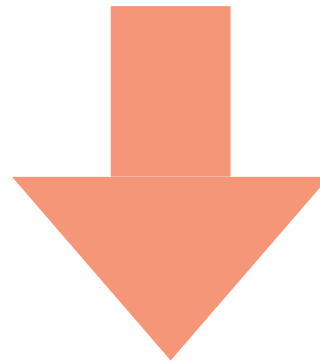


Background

It was a difficult problem for two or more surge counters to confirm the invasion route and the branch route of the lightning at the moment of failure caused by lightning.



6 channel surge counters can take time synchronization. Because the data of six places or less can be acquired with one control unites.

Appearance



Display Part



Rogowski coil

Figure1 6 channel surge counter

Performance

Item	Performance
Current Range	100A ~ 20kA
Frequency response	10kHz ~ 1MHz
Polarity detection	Positive and Negative
Number of measurement channels	6 channel(Max)
Number of Date(Each channel)	100(When 100 is exceeded, it deletes it from old data.)
The maximum Date multiplication value(Each channel)	9999.9kA/ch
Minimum Detecting Term	5ms
Point of contact signal output	AC200V/1A, DC30V/2A
Lifetime of Battery	7 years

Table1 Electric performance of 6 channel surge counter

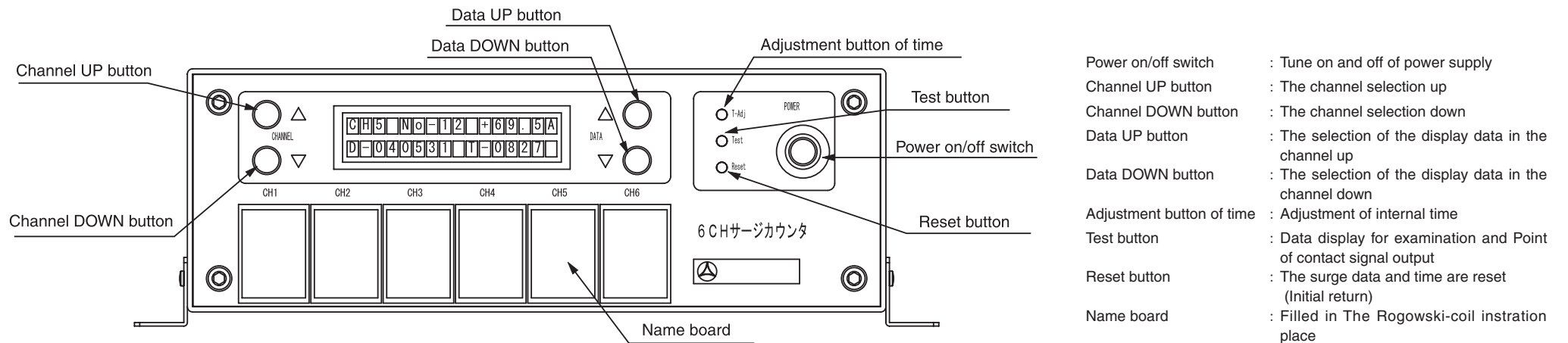


Figure2 Name of each part and function

Example of usage

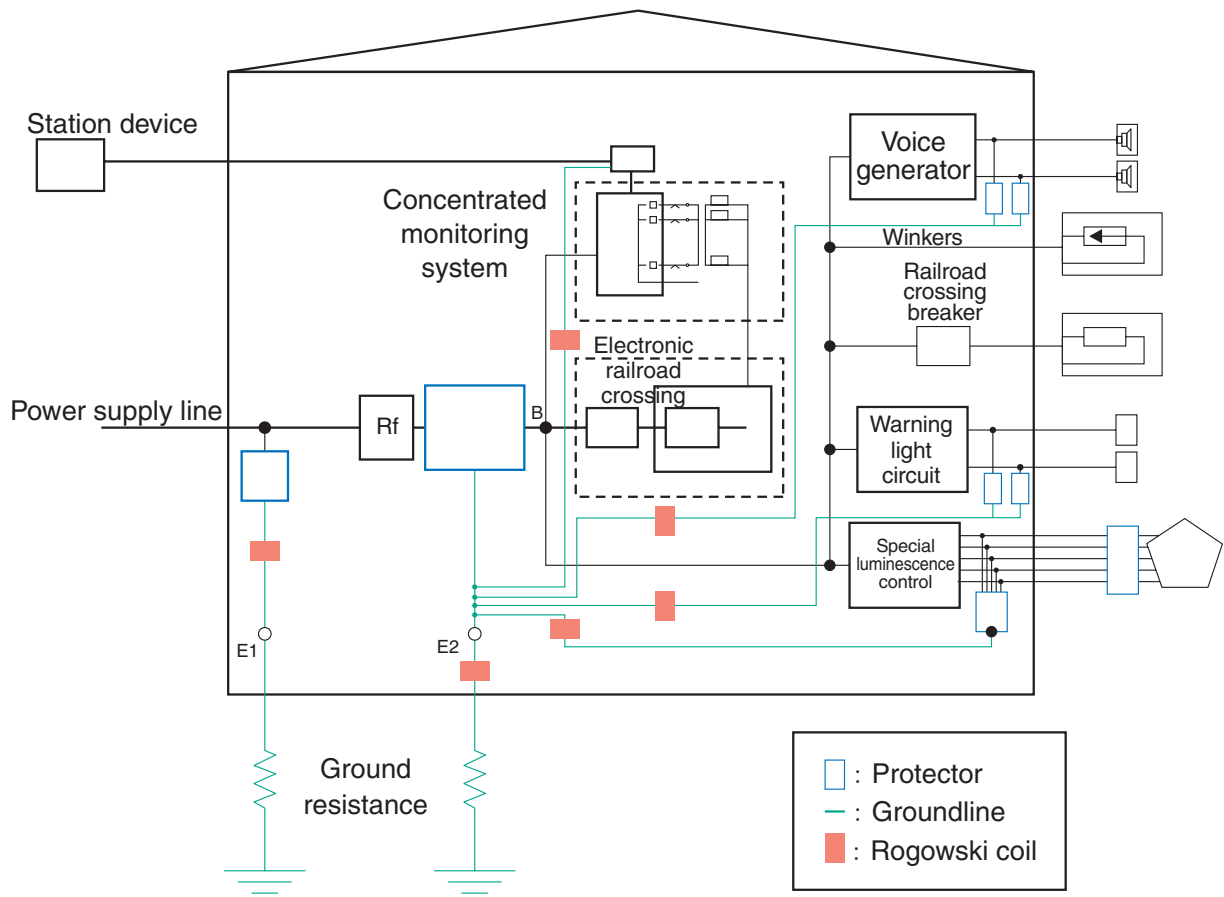


Figure3 Use example of the railroad crossing apparatus box in the railway

Example of usage

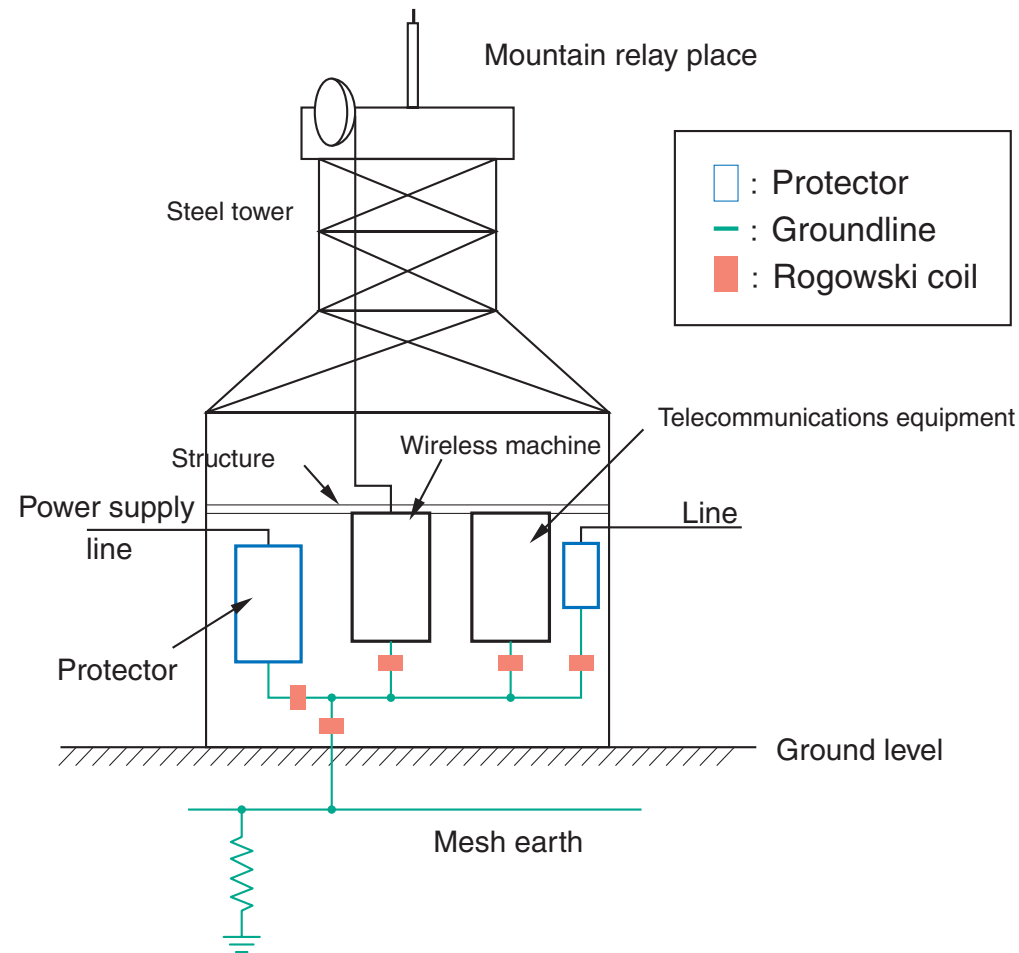


Figure4 Use example of the relay place in the top of a mountain

Example of usage

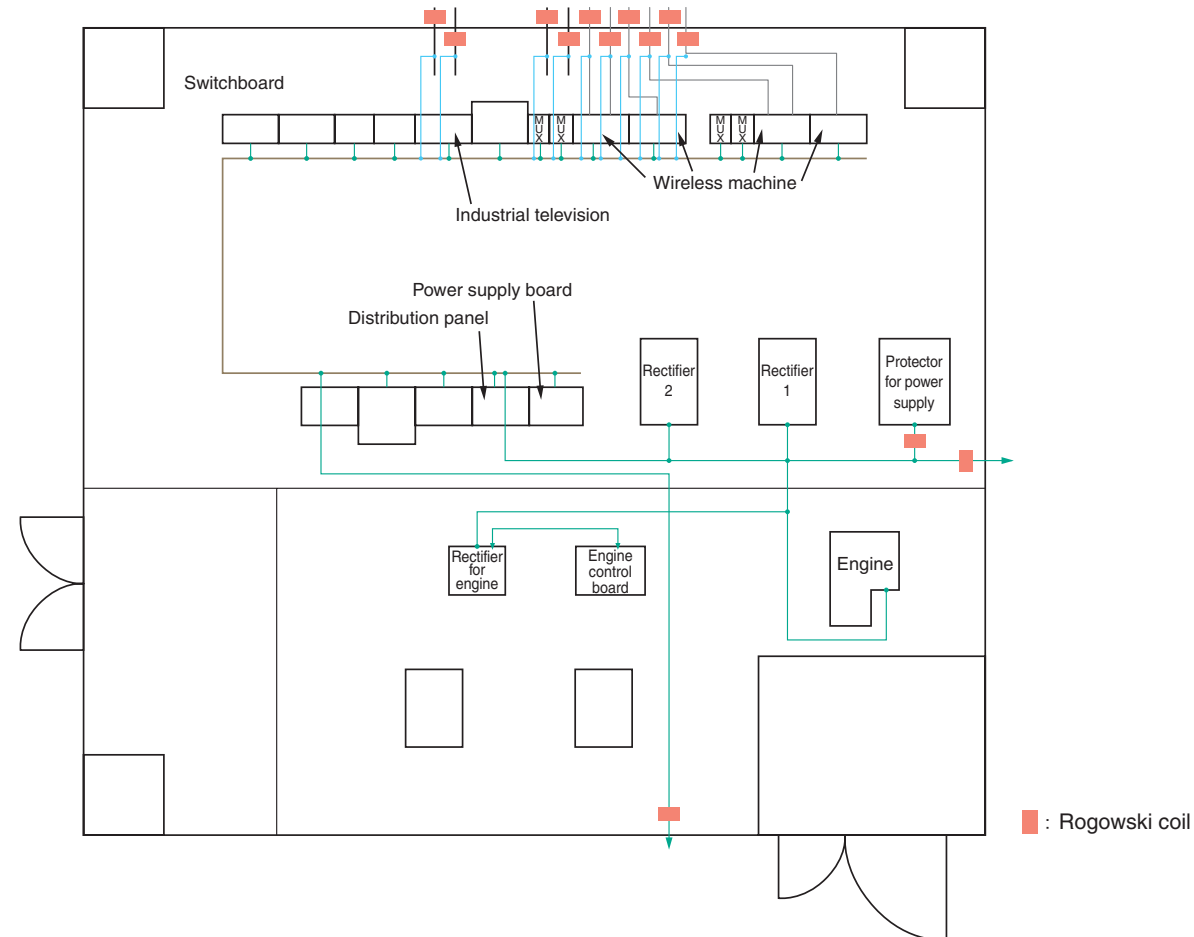


Figure5 Evaluation of surge invasion route and outflow route

Application for lightning protection measures

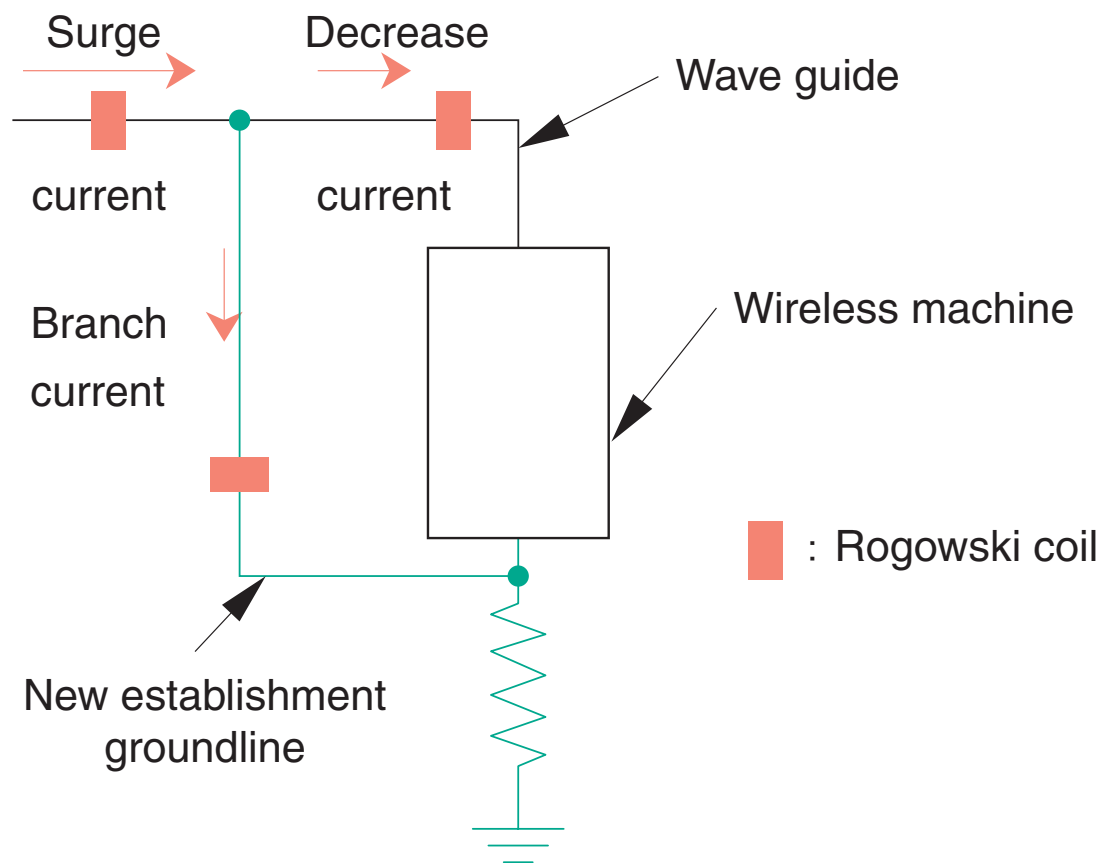


Figure6 Example of verification of lightning protection measures with 6 channel lightning surge counter

Summary

6 channel surge counter consists of one display part and two or more Rogowski coils. Rogowski coil can be changed in the size. So it can be applied for various cables, structures, and the iron tower legs, etc. As a result, it is possible to be used widely. It is useful for the lightning protection measures.

For example, it can be used for confirmation of the current situation of lightning protection system and verification after improvement of lightning protection measures, etc.