

LIQUID LEVEL TEMPERATURE GAUGE CHANGE

This document is specifically written to describe the procedure to change out the liquid level temperature gauge installed on WEG's Medium Voltage Renewables Transformers (MVT).

The information contained in this document is subject to change without notice. This document is not intended as a substitute for proper training or adequate experience concerning the safe operation of the process described; hence this is the sole responsibility of the user or the installer or purchaser of the transformer.

Only a **competent technician** who are familiar with the transformer should install, operate, and service the transformer.

A **competent technician** must have the following qualifications:

- Thoroughly familiar with the instructions as given in the instruction manual.
- Fully trained in industry-accepted high and low-voltage operating practices and safety procedures.
- Trained and authorized/certified to energize, de-energize, clear, and ground the transformer.
- Well versed in the use and care of personal protective equipment (PPE) such as arc flash clothing, safety glasses, face shield, hard hat, rubber gloves, clamp-stick, hot-stick, etc. as prescribed by OSHA or any other national standards applicable to the transformer.

Please read the instruction manual for a proper understanding of the installation, operation and maintenance for the transformer.

For the sole purpose of safe installation and operation of the transformer, the operator must read and understand all cautions and warnings labels as included in the instruction manual.

LIQUID LEVEL TEMPERATURE GAUGE CHANGE



Introduction:

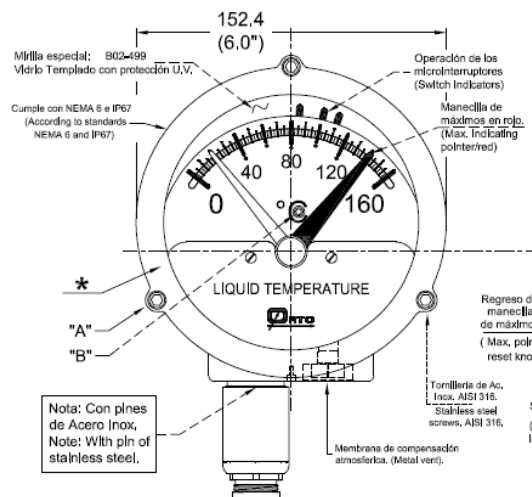


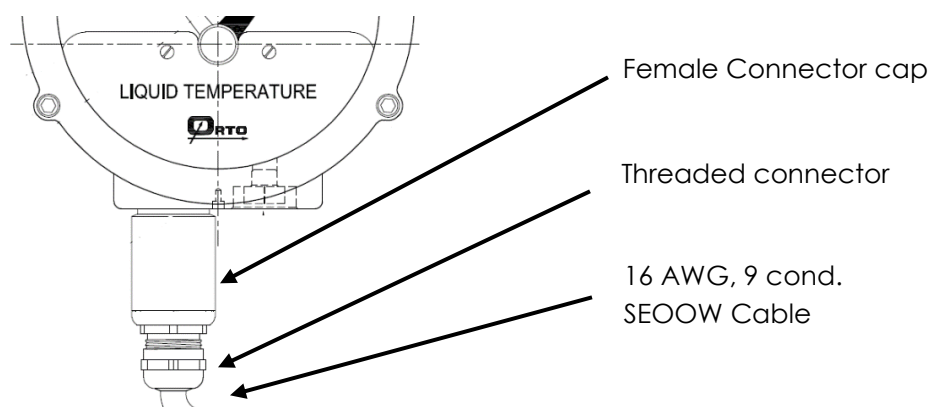
Figure 1

This procedure described the change out of an ORTO make liquid temperature gauge. The gauge is in figure 1.

Make note that the white needle hand indicates the mineral oil or the FR3 fluid temperature during operation. The red needle hand indicated the max. Temperature the MVT has seen prior reading the gauge on site.

Component identification:

The basis three (3) component of the Orto liquid temperature gauge are 1) female connector cap, 2) threaded connector and 3) 16 AWG, 9 cond. SEOOW Cable – refer to figure 2 below



LIQUID LEVEL TEMPERATURE GAUGE CHANGE

Replacement procedure:

Follow the step described below the replacement of an ORTO liquid level gauge, this as follows:

STEP 1 - Identify the temperature gauge and begin loosening the threaded connector by hand (turning counter clockwise the threaded connector as indicated in picture 3).



Picture 3

STEP 2 - Remove the threaded connector and the gasket of the connector per picture 4



Picture 4

STEP 3 - Once the threaded connector cap is loose, continue loosening the cap of the female connector by hand.

LIQUID LEVEL TEMPERATURE GAUGE CHANGE

STEP 4 - Remove the female connector cap by turning counter clockwise and pull down the connector cape, per picture 5.



Picture 5

STEP 5 - Remove the female connector cap and pull down gentle the female connector per picture 6.



Picture 6

NOTE: It is extremely important to review the conditions of the connector and make sure there is no pin damage in one way or another.

LIQUID LEVEL TEMPERATURE GAUGE CHANGE



STEP 6 - Remove temperature gauge by using a wrench, loosen the screw behind the gauge by turning counter clock wise per picture 7.



Picture 7

STEP 7 - Remove the gauge and replace with the new one per picture 8.



Picture 8

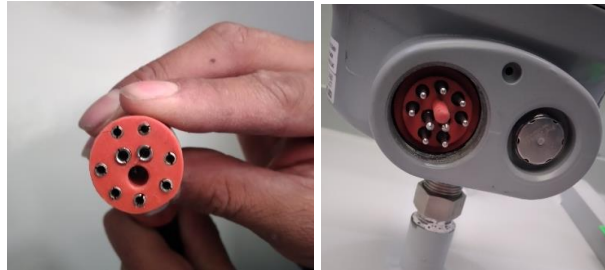
STEP 8 - Tighten the screw behind the gauge by turning clock wise gently and adjust the gauge position per picture 9.



Picture 9

LIQUID LEVEL TEMPERATURE GAUGE CHANGE

STEP 9 – Connect the female connector cap to the gauge while verifying the pins position between female and male connector per picture 10. The functional connection diagram is indicated in figure 11.



Picture 10

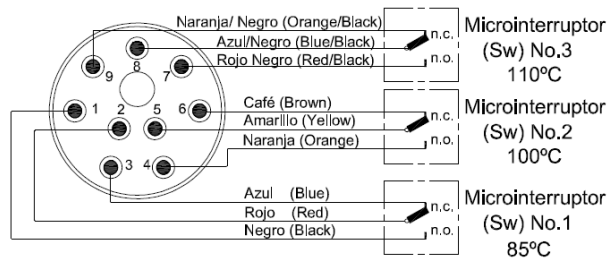


Figure 11

STEP 10 – Place the female connector and the cap in the same order it was removed and tighten by hand by turning clock wise per picture 12.



Picture 12

LIQUID LEVEL TEMPERATURE GAUGE CHANGE

STEP 11 – Slide the gasket in place together with the threaded connector cap and tighten by hand by turning clock wise peer picture below.



Picture 13

For fan temperature setting changes consult factory or read fan setting procedure as posted.



In case of doubt always contact factory or visit the our web at www.weg.us



NOT READING AND COMPLYING WITH ALL SAFETY INFORMATION, INSTRUCTIONS AND WARNINGS LABELS THROUGHOUT THE INSTRUCTION MANUAL BEFORE ATTEMPTING ANY INSTALLATION, OPERATION, OR MAINTENANCE ACTIVITIES MAY LEAD TO DANGEROUS SITUATIONS. IN CASE OF DOUBT CONTACT WEG:



+1 (636)-239-9300



**WTU-Service
DT@weg.net**



www.weg.us