

MATERIAL DECLARATION FOR CURRENT TRANSFORMER AND TRANSDUCER PRODUCTS

DEAR CUSTOMER,

Sentran has been a US manufacturer of electrical instrument current transformers for over 25 years and declares that these products listed in the attached addendum (A) meet RoHS and REACH requirements as defined in the EU directives stated below:

Sentran Corporation has placed this declaration letter and associated list of material on our website www.sentrancorp.com for your review and will be update as required at least once per year ⁽¹⁾.

EU REACH

After reviewing Article 59 and Article 57, our products do not contain any of the 12 chemicals called out on the latest K-REACH substance list. Sentran Corporation will continue to contact suppliers and review any newer versions at least once per year.

EU RoHS

As of the date of this letter, our products meet EU Directive 2015/863/EU and does not contain:

Substance Maximum Limit (PPM) - **N/A**
Cadmium (Cd) 100 - **N/A**
Mercury (Hg) 1000 - **N/A**
Hexavalent Chromium (Cr6+ or CrVI) 1000 - **N/A**
Polybrominated Biphenyls (PBB) 1000 - **N/A**
Polybrominated Diphenyl Ethers (PBDE) 1000 - **N/A**
Lead (Pb) 1000 **SENTRAN USES ONLY LEAD FREE SOLDER**
Bis(2-Ethylhexyl) phthalate (DEHP) 1000 - **N/A**
Benzyl butyl phthalate (BBP) 1000 - **N/A**
Dibutyl phthalate (DBP) 1000 - **N/A**
Diisobutyl phthalate (DIBP) 1000 - **N/A**

No Silicone is used.

EU RoHS Phthalates

Our products contain PVC using phthalates to produce PVC covered electrical wire but they Are approved for manufacturing and supplying wire to be used in Sentran Corporation products.



William C Burwell
President
Sentran Corporation

(1) The information provided in this letter related to material content represents Sentran Corporation's knowledge and belief as of the date it is provided, which is based in whole or in part on information provided by suppliers and/or information obtained from internal research.

In the event any Product is proven no to conform with Sentran corporation's certification, then to the extent permitted by law, Sentran Corporation's entire liability and Buyer's remedy, will be at Sentran Corporation's option either (i) replacement of Product with a conforming product, or (ii) refund of the purchase price paid by the Buyer for each non-conforming Product, within a reasonable time after written notification of said non-conformance and return of said Product to Sentran Corporation. Sentran Corporation shall not under any circumstances be liable for direct, incidental, special, or consequential damages (including but not limited to loss of profits, revenue, or business) related to or arising out of this certification, including, the use, misuse or inability to use the Product. Unless stated otherwise in writing, the forgoing language cannot be waived, modified, or supplemented in any manner whatsoever.

ADDENDUM (A) TO RoHS AND REACH LETTER
DATED MAY 20, 2019 REV (1)

ADENDUM TO RoHS & REACH
LETTER
DATED MAY 20, 2019 REV (1)

4LNF, 4LSG, 4LNG, 5AS, 5ASC

**MATERIAL DECLARATION LIST ALL MODELS 4LSF 4DSP, 4DS, 4MS, 5ASC,
PRODUCTS: ELECTRICAL INSTRUMENT TRANSFORMERS AND
TRANSDUCERS**

NAME OF COMPONENT OR PART	SUPPLIERS	RAW MATERIALS supplier Approval	Meets RHS	Meets Reach 191 Requirements
TAPE, INSULATION	3M, INTERTAPE	Supplier has approval	YES	YES
PAPER, NOMEX	DUPONT	Supplier has approval	YES	YES
WIRE COPPER, INSULATED FILM	ESSEX	Supplier has approval	YES	YES
WIRE COPPER, PVC JACKET	ESSEX	Supplier has approval	YES	YES
SOLDER, LEAD FREE	Kesler Checking supplier has approval	Tin, copper, silver, bismuth, indium, zinc, antimony	YES	YES
FIBERGLASS BOARD, FR4	PCB Universe	Checking that Supplier has approval	YES	YES
CORE, MAGNETIC, STEEL	AK STEEL	Silicon, iron	YES	YES
CORE, MAGNETIC, NICKEL	CARPENTER TECHNOLOGIES	0.02 C, 0.50 Mn, 0.35 Si, 80.00 Ni, 4.20 Mo, Bal. Fe no cadmium	YES	YES
FLUX, ROSIN	Kesler Checking supplier has approval	Rosin from pine tree Pinus subfamily Pinoideae	YES	YES
PLASTIC HOUSING, POLYCARBONATE	SABIC, ENVIROPLAS	Polycarbonate, bisphenol A, phosgene CPOCL2	YES	YES
DIODE, ELECTRONIC PART	DIODE INC, OTHERS	Silicon, germanium, gallium arsenide	YES	YES