

**thermoMETER CTex**

This conversion kit allows the use of any IR thermometer series CT in hazardous environment.

- Economic and easy solution for EX rated applications
- CT sensing heads are defined as simple electrical devices (according to EN 60079-11)
- No special approval for intrinsic safety necessary
- CT gets intrinsically safe by limitation of the energy with two double zener barriers, type 9002/22-032-300-111 (R. STAHL AG)

Zener barriers

Double zener barriers (type 9002/22-032-300-111) can be included in the scope of supply if required.

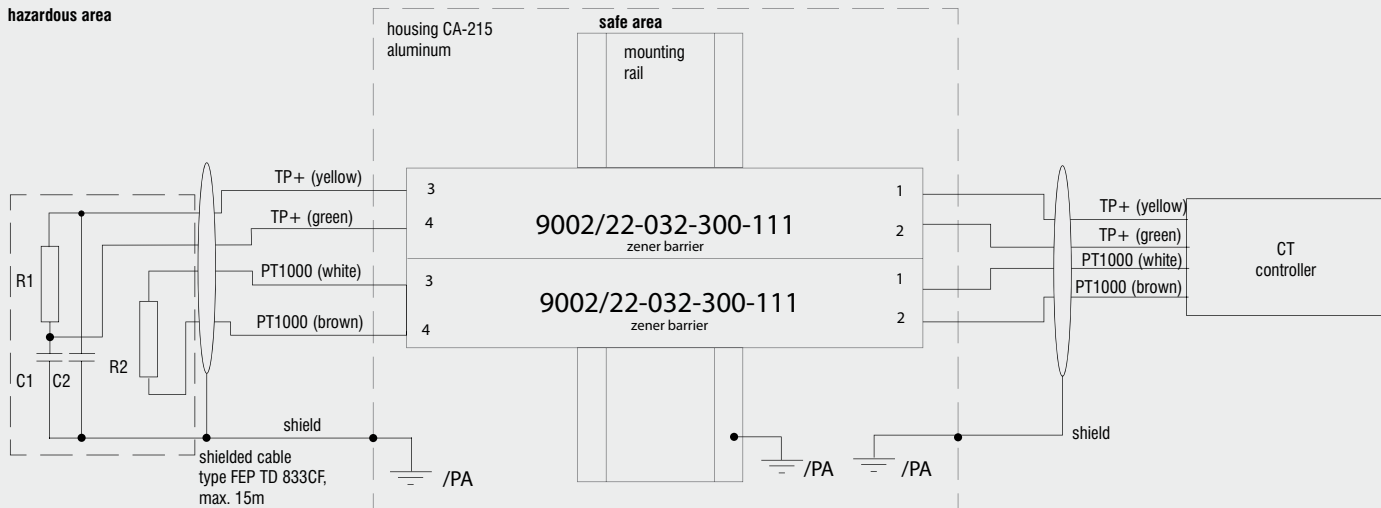
NOTE: The functionality and correct reading of the CT sensor can only be guaranteed, if the recommended barriers are used.

Technical data (zener barriers)¹ type 9002/22-032-300-111

Approvals	Europe (CENELEC)	for zone 1: PTB 01 ATEX 2053 for zone 2: PTB 01 ATEX 2054
	USA	FM Approval 3010778
	Canada	CSA 1284580 (LR 43394)
Explosion protection	Europe (CENELEC)	for zone 1: E-II (1/2) G [EEx ia/ib] IIC/IIB for zone 2: E II 3 G EEx nA II T4
	USA	I.S. circuits for: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G I.S. circuits for: Class I, Zone 0, Group IIC Class I, Division 2, Groups A, B, C, D Class I, Zone 2, Group IIC
	Canada	I.S. circuits for: Class I, Groups A, B, C, D; Class II, Groups E, F, G Class III Class I, Division 2, Groups A, B, C, D Class I, Zone 2, Groups IIC
Installation	in zone 2, division 2 and in safe area	
Environmental rating	acc. to IEC 60529/terminal IP 20/housing IP 40	
Ambient temperature	-20°C to 60°C	
Technical data of controller and sensor - page 22		

¹ Declaration of company R. STAHL AG
Modifications reserved

hazardous area



Sensor: "simple electrical device"
(according to EN 60079-11)

PA-terminals of the barriers must be grounded.

Scope of supply

- ▶ aluminum housing with mounting appliance for two zener barriers and CT controller
- ▶ pre-assembled cable for CT controller
- ▶ CD with software tool for calibrating the barrier resistance into the head code