

Notes for use of the VIATOR® RS232 HART® Interface [EEx ia] IIC (Model 010005) (the “Device”) for connection to circuits extending into Hazardous Areas

The Device is approved for connection to circuits extending into Hazardous Areas designated type II (1) G [EEx ia] IIC, which includes ignition protection groups IIA, IIB and IIC. Do not connect the Device to circuits extending into any Hazardous Area except ignition groups IIA, IIB and IIC. The Device is not approved for use inside any Hazardous Area.

The following information is printed on the Device label:

Model:	Model 010005
Ignition protection type:	II (1) G [EEx ia] IIC
Approval number:	DMT 01 ATEX E 023
Ambient temperature range:	T_{Ambient}: 0 °C to 50 °C
CE marking:	CE 0158
Year of construction:	Year of construction: 2001
Manufacturer's name:	MACTek Corporation
Manufacturer's address:	Twinsburg, OH 44087 USA

The electrical values at the blue connectors:

Maximum input voltage:	U_i = 30 V
Maximum input current:	I_i = 130 mA
Effective internal inductivity:	L_i = negligible
Effective internal capacity:	C_i = negligible
Maximum output voltage:	U_o = 2.0V
Maximum output current:	I_o = 4.21 mA
Maximum permissible inductivity:	L_o = 1000 mH
Maximum permissible capacity:	C_o = 1000 µF

Regulations for ignition protection must be posted near equipment with ignition protection. Staff working with the Device must be trained in the use of the Device and in the principles and procedures for ignition protection. Do not use a damaged Device. Do not repair a damaged Device. Discard damaged Devices.

Connect the Device to the computer by means of a 9-pin D-Sub connector. The line voltage of the computer must not exceed 250 VAC. Connect to an intrinsically safe circuit by means of the blue pins and optional alligator clips supplied with the Device.

The intrinsically safe circuit corresponds to category "ia" and may be connected to circuits extending into "Zone 0". Never use the Device inside any Hazardous Area.

The permissible values for inductance and capacitance must be determined by the reference curves for the applicable group (IIA, IIB and IIC.) Add the current and voltage to the already existing values respectively if you connect the Device to an intrinsically safe circuit. The sum of all connected inductances and capacitances must not exceed the determined values.