

# Manual CT25.2 Polymer Actuator

## General

<b>Maximum operating voltage</b>	<b>1200 V</b>
Tested withstand voltage	1350 V, 60 min
Maximum charge/discharge current	100 mA

## Safety

Warning! Do not touch the Polymer Actuator during operation. The side surfaces are not isolated. Before you do any handling to the Polymer Actuator, cables or terminals of the high-voltage source make sure that the Polymer Actuator is completely discharged and the high-voltage source is powered off.

## High-Voltage Source

During charging/discharging of the Polymer Actuator, high-voltage sources can generate voltage peaks that exceed the controlled/adjusted voltage significantly.

The charging/discharging using a powerful high-voltage source without current limitation may lead to the immediate destruction of the Polymer Actuator.

In order to smooth voltage peaks and to limit the current, a resistor can be connected in series to the Polymer Actuator. With an appropriate design the charging/discharging is only slightly delayed.

When a high-voltage source is used which cannot actively discharge, the discharge will take very long. In order to speed this up, a resistor can be connected in parallel to the high-voltage source.

