



Application notes



Application Note : December 2020

Market involved : Plastics and rubber

Product : NRGC-EIP, RGC1A60CM32GEN

Customer : OEMs

Subject : Control of heaters in extrusion machines

CUSTOMER ISSUE :

The OEMs need to offer a high-end machine to their customers with integrated monitoring and diagnostic features on top of switching.

Heaters are switched on to control the temperature of plastic sheets for the extrusion of plastic parts.

The customer needs to monitor in real-time any alarms issued during the process.

The customer utilises Allen Bradley PLCs in its machines which have the EtherNet/IP™ protocol integrated.

OUR SOLUTION :

The RGC1A60CM32GEN, in combination with the NRGC-EIP, can achieve switching, monitoring and diagnostics via the communication system.

The Burst switching mode is used to have full control on the utilised timebase.

Alarms sent via the EtherNet/IP™ communication through implicit messages are used to quickly identify any issues in the process.

The NRG system is easily integrated in the Allen Bradley PLC with the use of the EDS file.

BENEFITS :

- **Labour-time savings** with switching, monitoring and diagnostics available via the communication network
- **Stock reductions** with an all-in-one solution
- **Easy to integrate and configure** via the PLC engineering tool
- **Low machine downtime:** with fast diagnostics via the communication network, faults can be identified and rectified in a timely manner