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miControl® informs:

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Explore the functions of our drive controllers: Focus on the special feature "Event at value" today!

In today's issue of our info sheet, we delve into the fascinating world of automation and process monitoring.

Mahmoud Abouelamayem from the Support team introduces you to the innovative "Event on value" function and shows you how you can use this function to standardise your processes.

Imagine being able to monitor the status of any parameter and automatically trigger a customised event - without any complex programming (MPU).



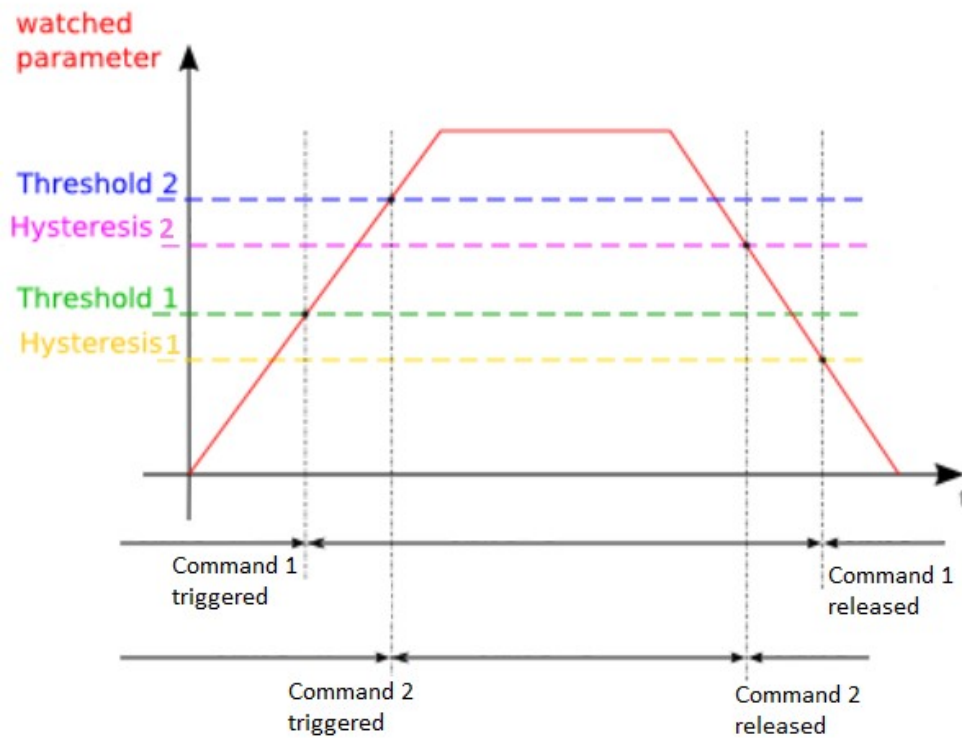
You can also use this function to reduce your costs by eliminating inefficient processes and making optimum use of resources. You can find more information on MPU programming (SPS functionality) in the [July 2023 issue of our newsletter](#). Get inspired and find out how you can easily optimise your processes and save time and resources.

Functionality and options

Up to two threshold values can be defined for monitoring the parameter. As soon as one of these threshold values is exceeded, a freely selectable device command can be executed. The possible device commands include:

- **Delete error**
- **Quick-Stop / Stop**
- **Disable output stage**
- **Generate freely definable error code** (and thus set the controller to error status)
- **Change setpoint** (speed, current, position)
- **and much more.** (see device commands according to the description in mcManual -> parameter 3000.01)

To avoid repeated execution of a command, a hysteresis can be defined. A new command is only triggered again when the value falls below the hysteresis value and the threshold value is exceeded again.



Practical application examples

The "Event at value" function offers numerous options for customising your processes efficiently. Here are some examples of how you can use this function in practice.

1. Monitoring the position to implement a customised driving profile

Any vehicle starts off at maximum speed, for example. If the first position threshold value is exceeded, the speed is reduced to the value X. If the second threshold value is exceeded, the speed can be increased again, reduced further or a stop can be triggered.

2. Monitoring of the individual status bits (status register 3002.00h) and signalling of the statuses via a digital output

The status register provides information on whether a set limit has been reached (e.g. current, speed or position limit). Depending on the status of the respective bit ("high" or "low"), this information can be transmitted to a digital output. This can be used for signalling (e.g. by a light) or for triggering further actions (e.g. switching a relay). The "Event at value" function opens up a whole new world of process automation. There are virtually no limits to your creative ideas. Discover completely new application possibilities that can revolutionise and, above all, standardise your workflows. This will not only make your processes more efficient, but also more secure. In our mcManual you will find detailed descriptions of the associated parameters in the area 301A.00h to 301A.13h.

For further information or assistance, please contact our dedicated support team at support@micontrol.de. Let's shape the future of your automation together.



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