

# OPC UA Manual for Cilix-2 v1

Cilix-2 feature 2 channels - left and right called “Left Motor” and “Right Motor”. The OPC UA prefixes after the device for channel Left Motor (LM) are:

LM.change\_state : BOOL (8bit) R/W

Tries to set the motor in the wanted state when =TRUE, see LM.state\_run

When the operation is finished successfully or not, the device will set it to FALSE.

LM.config.Gear\_0.gear\_ratio : REAL (32 bit) R

A positive figure. The real velocity can be calculated as:

$V_{real} = LM.v / gear\_ratio$

The gear ratio can not be set remotely.

LM.config.RunSta.actualRun; INT (16 bit) R

The state of the motor

0 STOP (Stops the motor)

1 CW (Clockwise)

2 CCW (Counter clockwise)

3 AUTO (The motor is in auto mode can not be done remotely)

LM.config.seltype.met.loss\_est : REAL (32 bit) R

Estimated loss in motor friction for a specific velocity measured by running the motor without load. Used for calculating power number. Can not be done remotely.

Unit: mW

LM.config.seltype.met.power : REAL (32 bit) R

Total amount of power when running including loss.

Unit: mW

LM.config.seltype.met.power\_nr : REAL (32 bit) R

The power number calculated from the power and loss and specified parameters for the impeller which cannot be set remotely. It has no unit.

LM.config.seltype.met.torque : REAL (32 bit) R

The current torque.

Unit: mNm

LM.config.stoped : BOOL (8 bit) R

If TRUE the motor is stopped and de-energized.

LM.config.target\_velocity :INT (16 bit) R/W

The target velocity in rpm before gear always positive. The direction is controlled by LM.state\_run .

LM.state\_run ; INT (16 bit) R/W

The wanted state. Can take 3 values:

0 STOP (Stops the motor)

1 CW (Clockwise)

2 CCW (Counter clockwise)

Other values are not allowed

May only be changed while LM.change\_state is FALSE.

A state shift will not take place before LM.change\_state is set to TRUE.

LM.v : INT (16 bit) R

The velocity of the motor in rpm. Sign indicates the direction <0 mean counter clockwise. The velocity is before any gear.

v=0 does not mean that the motor is de-energized, see LM.config.stoped

The Right Motor is identical with the left just substitute the prefix LM with RM

END