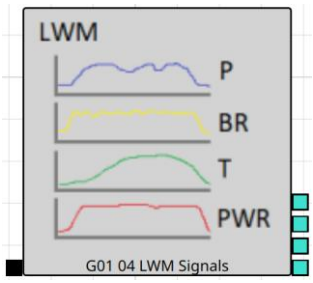
Precitec Macro Documentation

04 LWM Signals

Changelog

Date	Version	Autor	Tested on	Description
2022-04-13	A	Wre	5.16.0	New documentation
2022-06-09	B	Wre	5.16.16	UserLevels Bug fixed
2022-06-14	C	Wre	5.16.16	LowPass Filter added to LWM Signals

Description



Generates LWM Signals. Software Gains and Results for the plotters are included.

I1: Image

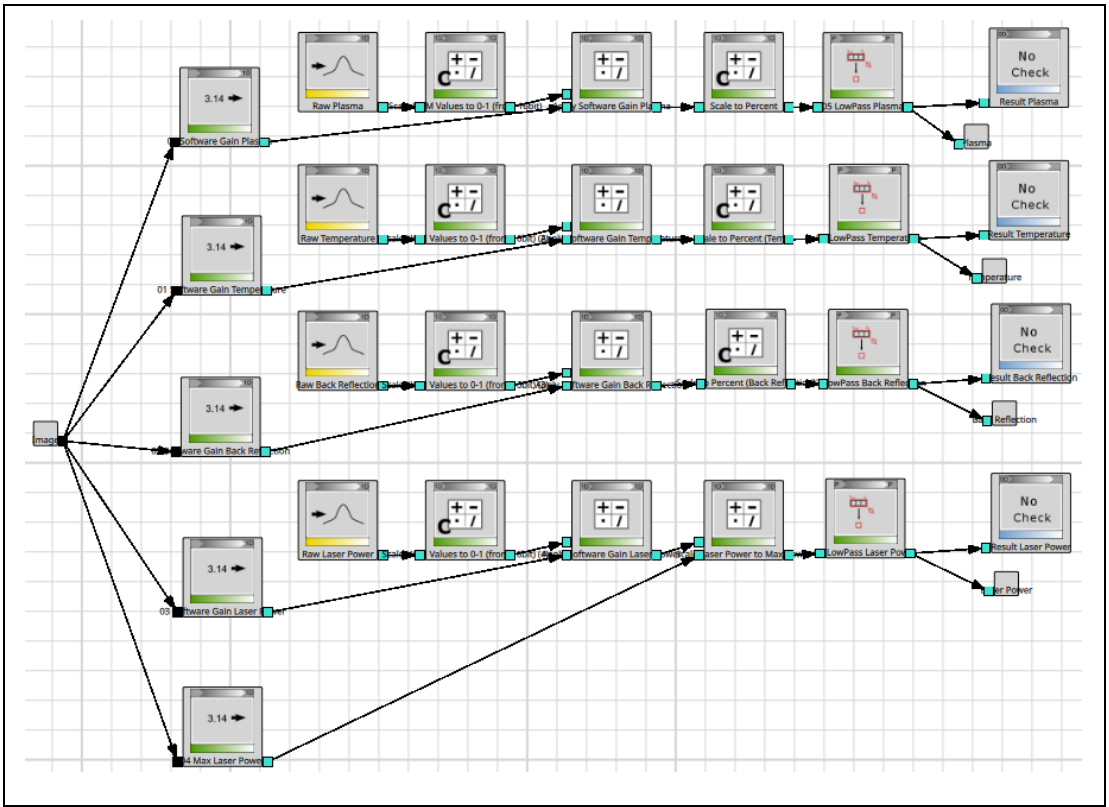
O1: Plasma

O2: Temperature

O3: Back reflection

O4: Laser power

- **Macro structure**



Reads in the Sensor signals from the LWM and adds a Software Gain to them.

Results are generated inside that Macro. All LWM Signals are also an Output of the Macro, for later use inside the algorithm. Signals can be filtered by using the LowPass parameters

- **Parameter**

NAME	VALUE	Description	UserLevel
00 Software Gain Plasma → Number	**2.27**	Software Gain for the Plasma signal	GroupLeader
01 Software Gain Temperature → Number	**3**	Software Gain for the Temperature signal	GroupLeader
02 Software Gain Back Reflection → Number	**8**	Software Gain for the Back Reflection signal	GroupLeader
03 Software Gain Laser Power →	**3.69**	Software Gain for the Laser Power signal	GroupLeader

Number			
04 Max Laser Power → Number	**4000**	Maximum Laser Power	GroupLeader
05 LowPass Plasma → Kind of low pass	**Mean**	Choose between a floating mean, median, maximum, or minimum filter.	GroupLeader
05 LowPass Plasma → Filter length	**1**	Choose the Filter length the floating low pass filter should be applied to.	GroupLeader
06 LowPass Temperature → Kind of low pass	**Mean**	Choose between a floating mean, median, maximum, or minimum filter.	GroupLeader
06 LowPass Temperature → Filter length	**1**	Choose the Filter length the floating low pass filter should be applied to.	GroupLeader
07 LowPass Back Reflection → Kind of low pass	**Mean**	Choose between a floating mean, median, maximum, or minimum filter.	GroupLeader
07 LowPass Back Reflection → Filter length	**1**	Choose the Filter length the floating low pass filter should be applied to.	GroupLeader
08 LowPass Laser Power → Kind of low pass	**Mean**	Choose between a floating mean, median, maximum, or minimum filter.	GroupLeader
08 LowPass Laser Power → Filter length	**1**	Choose the Filter length the floating low pass filter should be applied to.	GroupLeader