

**Liquid Metal Limiter**

- Ds18s20 temperature sensors
- Inp. Superior
- Dep. Inferior
- Bypass
- Troço Inferior
- Dep. Superior
- Colector
- 4 Vaves

The dsPic acquires the temperature and send it back to a high level PC application. It also control four valves by logic gates with two states, this information is sent back to the PC, there are two commads to control the valve state from the high level application.

Process Value in the IOC Server for this system.

PV Name	PV Type	Archive	Localization
ISTTOK:gallium:Uptime	longin	no	N/A
ISTTOK:gallium:Diff_Uptime	calc	no	N/A
ISTTOK:gallium>Last_Uptime	calc	no	N/A
ISTTOK:gallium:Temperature_0	ai	yes	Upper Section, (e)
ISTTOK:gallium:Temperature_1	ai	yes	Lower Deposit, (b)
ISTTOK:gallium:Temperature_2	ai	yes	Bypass, (d)
ISTTOK:gallium:Temperature_3	ai	yes	Lower Section, (f)
ISTTOK:gallium:Temperature_4	ai	yes	Upper Deposit, (a)
ISTTOK:gallium:Temperature_5	ai	yes	Collector, (c)
ISTTOK:gallium:Valve_1	bo	no	(1)
ISTTOK:gallium:Valve_1_RBV	bi	no	(1)
ISTTOK:gallium:Valve_2	bo	no	(2)
ISTTOK:gallium:Valve_2_RBV	bi	no	(2)
ISTTOK:gallium:Valve_3	bo	no	(3)

ISTTOK:gallium:Valve_3_RBV	bi	no	(3)
ISTTOK:gallium:Valve_4	bo	no	(4)
ISTTOK:gallium:Valve_4_RBV	bi	no	(4)

[gallium.jpg](#)