Summary:

Previously it was discovered that the output of the temperature controller was set to 5V. Here I provide the information that the controller returns when switching to 12V.

In summary, when at 12V, the LNA temperature is not trying to reach the setpoint (25 degC). In fact, the sensor temperature was ~ 20.5 degC, and the power reported by the controller was -100% (trying to cool). This is inconsistent, since it should be heating to reach the setpoint.

The sensor temperature remained stable during measurements, no matter the state of the controller output. This was monitored during about half an hour. With the output ON or OFF, the temperature remained close to 20.5 deg C. Even though the output is supposedly pumping -100% of power, the temperature does not change one way or the other.
Switching Output Voltage from 5V to 12V

SWITCHING TO 12V:
-----------------------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -volt12
usbdev 3
(stx=2a)001600002ee0b3(etx=d)
status 10
start to read
status c resp *00002ee0ec^ 
recvd from 00 = 12000 120.000000
chkrec ec

READING SET VOLTAGE:
-----------------------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 46
usbdev 3
(stx=2a)0046000009c48a(etx=d)
status 10
start to read
status c resp *00002ee0ec^ 
recvd from 46 = 12000 120.000000
chkrec ec
Control Parameters

TEMPERATURE SETPOINT:
-------------------------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 40
usbdev 3
(stx=2a)0040000009c484(etx=d)
status 10
start to read
status c resp *000009c4c0^ revcd from 40 = 2500 25.000000
chkrec c0

BANDWIDTH:
-------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 41
usbdev 3
(stx=2a)0041000009c485(etx=d)
status 10
start to read
status c resp *0000001485^ revcd from 41 = 20 0.200000
chkrec 85

GAIN:
--------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 42
usbdev 3
(stx=2a)0042000009c486(etx=d)
status 10
start to read
status c resp *0000000080^ revcd from 42 = 0 0.000000
chkrec 80

DERIVATIVE:
------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 43
usbdev 3
(stx=2a)0043000009c487(etx=d)
status 10
start to read
status c resp *0000000080^ revcd from 43 = 0 0.000000
chkrec 80
Monitoring Controller with Output OFF

TURNING OFF OUTPUT:
-----------------------------------------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -turnoff
usbdev 3
(stx=2a)001d0000000075(etx=d)
status 10
start to read
status c resp *0000000080^ Number 10
recv from 00 = 0 0.000000
chkrec 80

READING OUTPUT STATE:
--------------------------------------------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 4d
usbdev 3
(stx=2a)004d000009c4b8(etx=d)
status 10
start to read
status c resp *0000000080^ Number 4d
recv from 4d = 0 0.000000
chkrec 80

READING OUTPUT VOLTAGE:
-----------------------------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 02
usbdev 3
(stx=2a)00020000009c482(etx=d)
status 10
start to read
status c resp *0000000080^ Number 02
recv from 02 = 0 0.000000
chkrec 80
READING SENSOR TEMPERATURE:
----------------------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 01
usbdev 3
(stx=2a)0001000009c481(etx=d)
status 10
start to read
status c resp *0000500bb7^ 
recv from 01 = 20491 204.910000
chkrec b7

READING POWER:
-----------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 04
usbdev 3
(stx=2a)0004000009c484(etx=d)
status 10
start to read
status c resp *0000000080^ 
recv from 04 = 0 0.000000
chkrec 80
Monitoring Controller with Output ON

TURNING ON OUTPUT:
--------------------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -turnon
usbdev 3
(stx=2a)001d0000000176(etx=d)
status 10
start to read
status c resp *0000000181^ 
revcd from 00 = 1 0.010000
chkrec 81

READING OUTPUT STATE:
--------------------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 4d
usbdev 3
(stx=2a)004d000009c4b8(etx=d)
status 10
start to read
status c resp *0000000181^ 
revcd from 4d = 1 0.010000
chkrec 81

READING OUTPUT VOLTAGE:
--------------------------------
loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 02
usbdev 3
(stx=2a)0002000009c482(etx=d)
status 10
start to read
status c resp *00002ee1f^ 
revcd from 02 = 12012 120.120000
chkrec 1f
READING SENSOR TEMPERATURE:

loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 01
usbdev 3
(stx=2a)0001000009c481(etx=d)
status 10
start to read
status c resp *0000504cbc^ 
revcd from 01 = 20556 205.560000 
chkrec bc

READING POWER:

loco@edges-pc:/media/DATA/EDGES_codes/edges_c$ ./oven2_raul -mode 04
usbdev 3
(stx=2a)0004000009c484(etx=d)
status 10
start to read
status c resp *fffffd55cc^ 
revcd from 04 = -683 -6.830000 
chkrec cc