



**Rapporto di calibrazione LFL Modello SNR670 SERIES**  
 Allegato A01 POA9.051 Pag.01

Company Name ARCELORMITTAL Date 21-12-2016

Equipment Serial Number(s) 04-415

Serial numbers are indicated on the Instruments serial plate, which is located on the side exterior of the Instrument

**COMMENTS**

PRIME OVEN ZONE 2

Scroll through the Instrument's display menus. Record the values shown below

Record any LEDs That may be lit the front panel. Identify any indicators that are lit by filling in the circles.

GAUGES	CAL MENU	ALARMS	OUTPUTS	COM PORT
Reading 0	Raw Zero 502 °C	Warning 40%	RLY Test /	Set Baud /
Status NORMAL	Raw Span 110	Danger 50%	mA Test OK	BaudRate /
Peak Hi 51	Cal Time 1min	Rate ON	mA Scale 100%	AutoBaud /
Peak Low 01	Cal Rdng 60%	Latches FDW	4mA Adj 0.1mA	Address /
HSG Temp 200 °C	Span °C 116 °C	Fail Safe FDW	20mA Adj -0.4mA	ID NBR /
SET Temp 200 °C	Linear 40%	Auto Ign 0	mA Cal 21.5mA	
Flow 2.35 l/min	Speed MED	Version 5.04	mA Fault 21.1 mA	
Low Flow 1.38 l/min	Cal Lock UNLK	Type 671	Control 1 RESET	
Flame 500 °C		Serial 04-415	Control 2 ACKN	
		Language ENGL	RLY Cnfg HORN	

Use the following legend Off = ○ On = ● Flashing = ⊖

Alarm ○ Scan  Fault ○ Danger ○ Warning ○ Horn ○ Zero ○ Span ○ Ignite ○ Heat ○

Record the following values at the sensor:

a	Fuel Inlet Pressure	65	PSIG
b	Dilution Air Pressure	20	PSIG
c	Span Inlet Pressure	20	PSIG
d	Zero Inlet Pressure	20	PSIG
e	Plant Compressed Air Pressure	20	PSIG
Is the process under pressure or vacuum at the sample point? Fill in the value and the unit of measure		Y	

<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	Where is the sample pickup tube located? PZ 2
<div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto; display: flex; justify-content: space-around;"> <span>a</span><span>b</span><span>c</span><span>d</span><span>e</span> </div> <div style="display: flex; justify-content: center; gap: 5px; margin-top: 5px;"> <div style="width: 10px; height: 10px; border: 1px solid black;"></div> <div style="width: 10px; height: 10px; border: 1px solid black;"></div> <div style="width: 10px; height: 10px; border: 1px solid black;"></div> <div style="width: 10px; height: 10px; border: 1px solid black;"></div> </div>	Where does the exhaust tube go to? PZ 2



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**Rapporto di calibrazione LFL Modello SNR670**  
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N. 04/415

GAS DI CALIBRAZIONE	VALORI RILEVATI
ARIA	0 % LEL
1,15% ETILENE	60 % LEL

ESITO CALIBRAZIONE	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> NO
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NOTE

DATA

21.12.2016

VERIFICATORE

LAPIO AURINO

FIRMA

*(Signature)*



Company Name ARCELORMITTAL Date 21-12-2016

Equipment Serial Number(s) 04-416

Serial numbers are indicated on the instruments serial plate, which is located on the side exterior of the instrument

COMMENTS

PLATE OVER ZONE 1

Scroll through the instrument's display menus. Record the values shown below

Record any LEDs that may be lit the front panel. Identify any indicators that are lit by filling in the circles.

GAUGES	CAL MENU	ALARMS	OUTPUTS	COM PORT
Reading 0%	Raw Zero 500%	Warning 40%	RLY Test /	Set Baud
Status NORMAL	Raw Span 119%	Danger 50%	MA Test OK	BaudRate
Peak HI 51	Cal Time 1m	Rate EV	MA Scale 100	AutoBaud
Peak Low 0%	Cal Rdnng 60%	Latches EDW	4mA Adj 0.1mA	Address
HSG Temp 201%	Span °C 110%	Fail Safe EDW	20mA Adj -0.5mA	ID NBR
SET Temp 200%	Linear 40%	Auto Ign 0	MA Cal 29.0mA	
Flow 2.34 LPM	Speed MED	Version 5.04	MA Fault 2.0mA	
Low Flow 1.40 LPM	Cal Lock U/L	Type 674	Control 1 RESET	
Flame 500%	Serial 04-416	Control 2 ACKN	RLY Cnfg Horn	

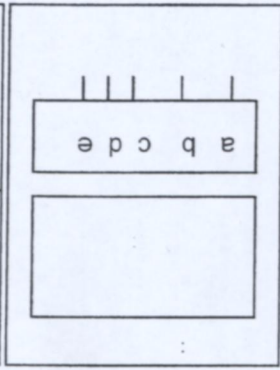
Use the following legend Off =  On =  Flashing =

- Alarm
- Scan
- Fault
- Danger
- Warning
- Horn
- Zero
- Span
- Ignite
- Heat

Record the following values at the sensor:

	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG
a	Fuel Inlet Pressure	45					
b	Dilution Air Pressure	20					
c	Span Inlet Pressure	20					
d	Zero Inlet Pressure	20					
e	Plant Compressed Air Pressure	20					

Is the process under pressure or vacuum at the sample point? Fill in the value and the unit of measure



Where is the sample pickup tube located? 021	Where does the exhaust tube go to? 021
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GAS DI CALIBRAZIONE	VALORI RILEVATI
ARIA	0 % LEL
1,15% ETILENE	60 % LEL

ESITO CALIBRAZIONE  OK  NO

NOTE

DATA

9-19-2016

VERIFICATORE

Lario GURVATO

FIRMA

*Gurvat*

*[Signature]*

ArcelorMittal





# Rapporto di calibrazione LFL Modello SNR670 SERIES

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Company Name ARCELORMITTAL Date 21-12-2016

Equipment Serial Number(s) 04-417

Serial numbers are indicated on the Instruments serial plate, which is located on the side exterior of the Instrument

## COMMENTS

FINISH ZONE 1

Scroll through the Instrument's display menus. Record the values shown below

Record any LEDs That may be lit the front panel. Identify any indicators that are lit by filling in the circles.

GAUGES	CAL MENU	ALARMS	OUTPUTS	COM PORT
Reading <u>0%</u>	Raw Zero <u>489 °C</u>	Warning <u>40%</u>	RLY Test <u>1</u>	Set Baud
Status <u>NORMAL</u>	Raw Span <u>132.6</u>	Danger <u>50%</u>	mA Test <u>OK</u>	BaudRate
Peak Hi <u>2%</u>	Cal Time <u>1 min</u>	Rate <u>ON</u>	mA Scale <u>100% 4E</u>	AutoBaud
Peak Low <u>0%</u>	Cal Rdng <u>60%</u>	Latches <u>FDW</u>	4mA Adj <u>0,0 mA</u>	Address
HSG Temp <u>199 °C</u>	Span °C <u>130 °C</u>	Fail Safe <u>FDW</u>	20mA Adj <u>-0.5 mA</u>	ID NBR
SET Temp <u>200 °C</u>	Linear <u>40%</u>	Auto Ign <u>0</u>	mA Cal <u>22.0 mA</u>	
Flow <u>2.38 LPM</u>	Speed <u>MED</u>	Version <u>5.04</u>	mA Fault <u>21.0 mA</u>	
Low Flow <u>1.40 LPM</u>	Cal Lock <u>UNLOCK</u>	Type <u>674</u>	Control 1 <u>RESET</u>	
Flame <u>498 °C</u>		Serial <u>04-417</u>	Control 2 <u>ACKN.</u>	
		Language <u>ENGL</u>	RLY Cnfg <u>HORN</u>	

Use the following legend Off = ○ On = ● Flashing = ⊖

Alarm ○ Scan  Fault ○ Danger ○ Warning ○ Horn ○ Zero ○ Span ○ Ignite ○ Heat ○

Record the following values at the sensor:

a	Fuel Inlet Pressure	<u>45</u>	PSIG
b	Dilution Air Pressure	<u>20</u>	PSIG
c	Span Inlet Pressure	<u>20</u>	PSIG
d	Zero Inlet Pressure	<u>20</u>	PSIG
e	Plant Compressed Air Pressure	<u>20</u>	PSIG
Is the process under pressure or vacuum at the sample point? Fill in the value and the unit of measure		<u>V</u>	

 a b c d e	Where is the sample pickup tube located? <u>F21</u>
	Where does the exhaust tube go to? <u>F21</u>

**Rapporto di calibrazione LFL Modello SNR670**

N. 04/47

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GAS DI CALIBRAZIONE	VALORI RILEVATI
ARIA	0 % LEL
1,15% ETILENE	60 % LEL

ESITO CALIBRAZIONE	<del>OK</del>	NO
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NOTE

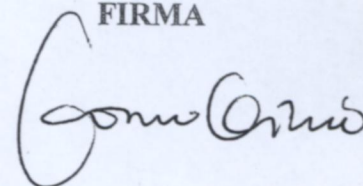
DATA

21-12-2016

VERIFICATORE

CAPLO QUINNO

FIRMA



ArcelorMittal





**Rapporto di calibrazione LFL Modello SNR670 SERIES**  
 Allegato A01 POA9.051 Pag.01

Company Name ARCELORMITTAL Date 21-12-2016

Equipment Serial Number(s) 04-418

Serial numbers are indicated on the Instruments serial plate, which is located on the side exterior of the Instrument

**COMMENTS**

FINISH OVEN ZONE 2

Scroll through the Instrument's display menus. Record the values shown below

Record any LEDs That may be lit the front panel. Identify any indicators that are lit by filling in the circles.

GAUGES	CAL MENU	ALARMS	OUTPUTS	COM PORT
Reading 0%	Raw Zero 500 °C	Warning 40	RLY Test /	Set Baud /
Status NORMAL	Raw Span 152 °C	Danger 50	mA Test OK	BaudRate /
Peak Hi 6%	Cal Time 1 min	Rate ON	mA Scale 100%	AutoBaud /
Peak Low 0%	Cal Rdng 60%	Latches FDW	4mA Adj 0.0mA	Address /
HSG Temp 200 °C	Span °C 134 °C	Fail Safe FDW	20mA Adj -0.5 mA	ID NBR /
SET Temp 2130 °C	Linear 40%	Auto Ign 0	mA Cal 22.1 mA	
Flow 1.40 l/m	Speed MED	Version 5.04	mA Fault 21 mA	
Low Flow 1.41 l/m	Cal Lock UNL	Type 674	Control 1 RESET	
Flame 498 °C		Serial 04-418	Control 2 ACKN.	
		Language ENGL	RLY Cnfg HORN	

Use the following legend Off = ○ On = ● Flashing = ⊖

Alarm ○ Scan  Fault ○ Danger ○ Warning ○ Horn ○ Zero ○ Span ○ Ignite ○ Heat ○

Record the following values at the sensor:

a	Fuel Inlet Pressure	45	PSIG
b	Dilution Air Pressure	20	PSIG
c	Span Inlet Pressure	20	PSIG
d	Zero Inlet Pressure	20	PSIG
e	Plant Compressed Air Pressure	20	PSIG
	Is the process under pressure or vacuum at the sample point? Fill in the value and the unit of measure	✓	

 a b c d e	Where is the sample pickup tube located? F22
	Where does the exhaust tube go to? F22

GAS DI CALIBRAZIONE	VALORI RILEVATI
ARIA	0 % LEL
1,15% ETILENE	60 % LEL

ESITO CALIBRAZIONE	<del>OK</del>	NO
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NOTE

DATA

21-12-2016

VERIFICATORE

LAPPO QUIRINO

FIRMA

*Lapponi Quirino*