



Teledyne Monitor Labs is a leading supplier of environmental monitoring instrumentation, systems and software.

APPLICATION/SETUP INFORMATION FOR SM8200 ANALYZER

1. CUSTOMER CONTACT INFORMATION

Name:	Date:	(TML Use Only)
Title:	RFQ:	
Company:	Quote:	
Phone:	P.O.:	
FAX:	TML Order:	
Email:		
Plant Site:		
Plant Contact:		
Stack Identification:		

2. APPLICATION

A. Function *(Select One of the Following)*

<input type="radio"/>	Process Control
<input type="radio"/>	Regulatory Compliance Monitoring

B. Compliance Monitoring *(Select One of the Following & Provide Details)*

<input type="radio"/>	40CFR60
<input type="radio"/>	40CFR75
<input type="radio"/>	Not Applicable
Other Federal (Specify):	
State (Specify):	

3. PLANT CHARACTERISTICS (Provide Details)

Combustion Source/Process (Specify):
Fuel(s) (Specify):
Particulate Controls (Specify, If No Particulate Controls, State If Excessive Particulate Condition):
NO _x Controls (Specify):
Flue Gas Desulfurization (Specify):
Elevation Above Sea Level (Specify):
Unusual Conditions (Specify):
Ore Smelter (Specify):

4. SM8200 EQUIPMENT INTERFACE REQUIREMENTS

A. TML DAS (Select One of the Following & Provide Details)

<input type="radio"/> Yes
<input type="radio"/> No
Model (Specify):

B. Other Data Recording Systems (Select One of the Following & Provide Details)

<input type="radio"/> Yes
<input type="radio"/> No
Model (Specify):

C. RS232 Serial Communication to Other Systems (Select One of the Following)

<input type="radio"/> Yes
<input type="radio"/> No

D. RS422 or RS485 Serial Communication to Other Systems (Select One of the Following)

<input type="radio"/> Yes
<input type="radio"/> No

E. ETHERNET Communication to Other Systems (Select One of the Following, IP Address is User Configurable)

<input type="radio"/>	Yes
<input type="radio"/>	No

F. 4-20 mA Analog Signals (Select One of the Following & Provide Details that Include the Number of Analog Signals Needed)

<input type="radio"/>	Yes (Specify):
<input type="radio"/>	No

G. Relay Contact Signals (Select One of the Following & Provide Details that Include the Number of Discrete I/O Needed)

<input type="radio"/>	Yes (Specify):
<input type="radio"/>	No

5. INSTRUMENT AIR AVAILABILITY

A. A Pollutant Free, Clean, Oil-Free, Dry Air w/ -40°C Dew Point (Select One of the Following)

<input type="radio"/>	Yes
<input type="radio"/>	No

B. 20 to 50 PSIG Pressure (Select One of the Following)

<input type="radio"/>	Yes
<input type="radio"/>	No

C. 20 LPM Flow Capability (Select One of the Following)

<input type="radio"/>	Yes
<input type="radio"/>	No

6. ELECTRICAL POWER (Select **One** of the Following & Provide Details. Power Requirements are 115VAC 575VA or 230VAC 590VA, 47-63Hz, Single Phase)

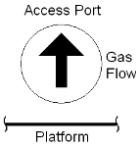
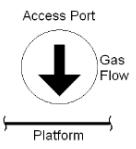
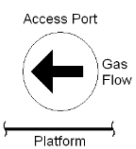
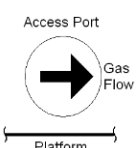
Voltage (Specify):	
Amps (Specify):	
<input type="radio"/>	Single Phase
<input type="radio"/>	Three Phase
Frequency (Specify):	

7. TRANSCEIVER INSTALLATION AND OPERATING CONDITIONS

A. Site (Select all that apply from the Following & Provide Details)

<input type="radio"/>	Duct
<input type="radio"/>	Stack
<input type="checkbox"/>	Double Wall
<input type="checkbox"/>	Insulated
Inner Diameter (Specify in Inches):	
Outer Diameter (Specify in Inches):	
Structure Material (Specify):	
<input type="radio"/>	Outdoor
<input type="radio"/>	Enclosed

B. Gas Flow Looking Into Stack or Duct Access Port (Select One of the Following)

<input type="radio"/>	From Access Port 6 O'clock Position to Access Port 12 O'clock Position	
<input type="radio"/>	From Access Port 12 O'clock Position to Access Port 6 O'clock Position	
<input type="radio"/>	From Access Port 3 O'clock Position to Access Port 9 O'clock Position	
<input type="radio"/>	From Access Port 9 O'clock Position to Access Port 3 O'clock Position	

C. Access Port Mounting Flange (Select One of the Following)

<input type="radio"/>	4 inch ANSI 150 lb Flat Face Flange Installed
<input type="radio"/>	Other Flange Installed (Specify):
<input type="radio"/>	No Flange Installed

D. Stack or Duct Environment (Select One of the Following)

<input type="radio"/>	316 SS Probe
<input type="radio"/>	C276 Hastelloy Probe Required (Highly Corrosive Application)

E. Gas Conditions (Provide Details)

	Nominal	High	Low
O ₂ %			
H ₂ O%			
Ambient Temp (°F)			
Stack Gas Temp (°F)			
Stack Gas Velocity (Ft/Sec)			
Stack Gas Pressure (Inches of Hg)			
Dew Point (°F)			
Particulate Loading (Grains/SCF)			
NO as % of NO _x			

F. Unusual Requirements (Select all that Apply from the Following)

<input type="checkbox"/>	Excessive Vibration
<input type="checkbox"/>	Measurement Cavity Less than 1 Meter from the Duct or Stack Inner Wall
<input type="checkbox"/>	Entrained Water in Measurement Stream
<input type="checkbox"/>	Large and/or Fast Changes in Stack Temperature and/or Pressure
<input type="checkbox"/>	Ammonia in Stack Gas

G. Gas Concentrations (Provide Details, See Note Below)

Gas Concentrations (See Note Below)	Regulatory Limit	Typical Levels	Regulatory Span	Required Range	Span Cell, Electro/Optical Cal Indication
NO _x (ppm)					
SO ₂ (ppm)					

Note:

Concentrations are defined for wet basis volumetric measurements. Specified performance is available for SO₂ span values between 75% & 150% of the cavity size and for NO span values between 75% & 125% of the cavity size. Available cavity sizes are 100, 208, 375, 500, 750, 1000, 1500, 2000, and 3000 ppm. For example, a 1000 ppm cavity can have a SO₂ span as high as 1500 ppm and a NO span as low as 750 ppm. Consult TML if SO₂ span is more than two times the NO span. Over range up to 10% may be available, but accuracy is not tested to be within specifications.

H. Installation Description (Provide Details)

General Description of Planned Installation:	
Describe Special Requirements for the SM8200:	
Describe Special Requirements for the Site:	
Serial Number of Instrument if Replacing an Existing SM81xx Analyzer:	

8. PROBE LENGTH (Select One of the Following. Probe Length Should Ideally Put the End of the Probe in the Center of the Stack or Duct or be at least 1 Meter from the Inside Wall if the Inside Diameter is Greater than 2 Meters)

<input type="radio"/>	2 Feet
<input type="radio"/>	4 Feet
<input type="radio"/>	6 Feet

FOR CUSTOMER REVIEW & APPROVAL

Completed Application/Setup Information Form has been reviewed.

Completed By: _____ **Company Name:** _____
Print Name

Approved By: _____ **Signature:** _____
Print Name of End User Representative

Date: _____



DO NOT WRITE IN THIS SPACE

FOR TML USE ONLY

Cavity Size: _____

Full Scale SO₂: _____

Full Scale NO: _____

Approval: _____
Application Engineer

Date: _____