

SIEMENS

Application Data Sheet

LDS in-situ process analysis

Please, fill out the configuration questionnaire as completely as possible together with the customer.
 Only in case that the application data does not correspond in all details to any defined LDS 6 standard application return it to the Siemens help desk. This will facilitate the processing of your inquiry.
 Please note that all information in **Section 1.** is necessary for a standard ordering process.
 Additional information in **Section 2.** is necessary especially to evaluate non-standard applications.

Details of end user	
Customer name:	
Plant type or process type	
Contact person:	
Address:	
Preferred contact language:	
Phone:	
Fax:	
E-mail:	

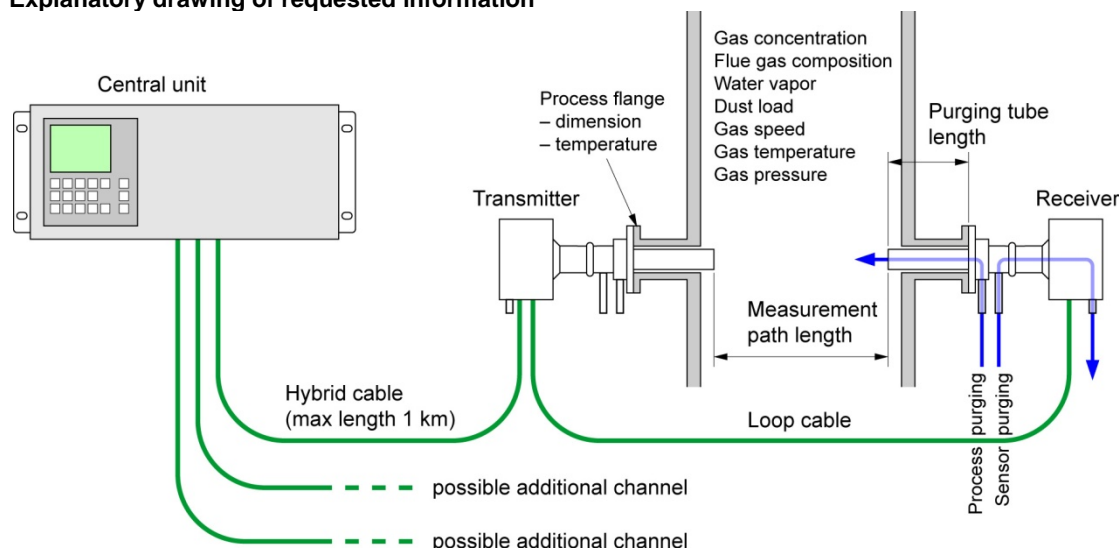
Details of Siemens contact person	
Sales office/representative:	
Date of inquiry:	
Inquiry N°:	
Name:	
Address:	
Phone:	
Fax:	
E-mail:	

Result of inquiry evaluation (if measurement feasible quotation details on page 4ff)	
This table to be filled out by SLA or PA MS/TS staff only!	
Project N°:	
Contact person SLA or PA MS/TS:	
Approval result:	
Quotation valid until:	

General remarks

The central unit must be placed in a control room environment or similar. Relative humidity must be below 80% and ambient temperature range between 5 – 45 °C. Ambient temperature at the sensors must be in the range -30 – 70 °C. Purging media should be oil- and dust free. Instrument air or N₂ should be provided using a 6 mm outer diameter flexible tube. Steam should be provided using DN12 tubing. For service/installation of the sensors, a free space of 60x60x60 cm must be available around both the transmitter and receiver.

Explanatory drawing of requested information



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Section 1: Essential application information

Analytical information and sensor demands			
	Channel 1	Channel 2	Channel 3
Measured Component(s)			
Component 1			
Measuring Range			
Typical concentration			
Required resolution ± ppm			
Component 2, if applicable			
Measuring Range			
Typical concentration			
Required resolution ± ppm			
Gas Temperature in °C min-max, (typical)			
Gas pressure in mbar absolute min-max, (typical)			
Measurement path length in m			
Dust load in mg/m³, min-max, (typical)			
Desired response time			
Harzardous sensor environment			
Purging process side			
Purging sensor side			
Purging media available on-site			
(pmin, pmax)			
Optional purging media on-site			
(pmin, pmax)			
inert purging media			
(pmin, pmax)			
Purging gas flow required			
Suitable purging tube materials			
Required purging tube length			
Flange type			
Flow cell for extractive measurement			
Hybrid cable length in m			
Loop cable length in m			
User documentation in			
Additional Remarks			

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Section 2: Additional information for non-standard applications

Please specify the major gas components and flow speed of the process gas.

Process gas composition (major species only)			
	Channel 1	Channel 2	Channel 3
Nitrogen / vol% Min-max, (typical)			
Water vapor / vol% Min-max, (typical)			
Oxygen / vol% Min-max, (typical)			
CO₂ / vol% Min-max, (typical)			
Others 1 / vol% Min-max, (typical)			
Others 2 / vol% Min-max, (typical)			
Others 3 / vol% Min-max, (typical)			
Others 4 / vol% Min-max, (typical)			
Others 5 / vol% Min-max, (typical)			
Gas speed in m/s Min-max, (typical)			

Remarks

Return Form: to be filled out by SLA or PA MS/TS staff only!

Specifications, only to be filled out if feasible parameter range differ from those in section 1 or 2			
	Channel 1	Channel 2	Channel 3
Gas Component 1, feasible			
Measuring range, ppm / Vol%			
Detection Limit, ppm / Vol%			
Resolution, ± ppm / Vol% or 2% of reading if larger			
Accuracy, ± ppm / Vol% or 2% of reading if larger			
Gas Component 2, feasible			
Measuring range, ppm / Vol%			
Detection Limit, ppm / Vol%			
Resolution, ± ppm / Vol% or 2% of reading if larger			
Accuracy, ± ppm / Vol% or 2% of reading if larger			
Min. Response time in s			
Gas Temperature in °C min-max, (typical)			
Compensation signal required			
Gas pressure in mbar absolute, min-max, (typical)			
Compensation signal required			
Measurement path length in m, min, max (typical)			
Dust load in mg/m³, min-max, (typical)			
Harzardous sensor environment			
Purging process side			
Purging flow recommended			
Purging sensor side			
Remarks			
Order information			
	Order N°	L-Price	
LDS 6 Central unit,	7MB612	EUR	
CD Sensor, ch 1	7MB612	EUR	
CD Sensor, ch 2,	7MB612	EUR	
CD Sensor, ch 3	7MB612	EUR	
Options: central unit		EUR	
sensor(s)		EUR	