DETCON, INC.		Rev No. 0	Date: 6/1/2005
INSTRUMENT SPECIFICATION SHEET - AMMONIA GAS MONITORS			

GENERAL DATA	1	INSTRUMENT TAG NUMBER			
	2	SERVICE			
	3	P&ID NUMBER			
	4	MANUFACTURER	**Detcon**		
	5	MATERIAL SOURCE			
	6				
	7				
PROCESS DATA	8	GAS(ES) TO BE DETECTED	**NH3**		
	9				
	10	CONTAMINANT AND / OR CORROSIVE GASES			
SENSOR DATA	11	SENSOR TAG NUMBER			
	12	MODEL NUMBER	**DM-702-NH3**		
	13	SENSOR TYPE	**lectrochemical Cell (intelligent plug-in) - NOTE 11**		
	14	NUMBER OF SENSORS	**1**		
	15	SENSOR/TRANSMITTER HOUSING MATERIAL	**Electropolished 316SS**		
	16	CALIBRATED RANGE	**0-100 PPM**		
TRANSMITTER	17	MODEL NUMBER	**DM-700-NH3**		
	18	TRANSMITTER ELECTRONICS MODULE	**UNIVERSAL DESIGN - NOTE 12**		
	19	HOUSING NEMA (OR EQUIVALENT) RATING	**NEMA 7/4X**		
	20	ELECTRONICS ENVIRONMENTAL PROTECTION METHOD	**100% Epoxy Encapsulation**		
	21	SENSOR/TRANSMITTER HOUSING MATERIAL	**Electropolished 316SS**		
	22	TERMINAL JUNCTION BOX MATERIAL	**NOTE 1**		
	23	TERMINAL JUNCTION BOX CONDUIT CONNECTION	**3/4" NPTF - NOTE 8**		
	24	OUTPUT SIGNAL, RANGE mA	**4-20 mA DC - NOTE 9**		
	25	DIGITAL OUTPUT SIGNAL	**RS-485 Modbus RTU**		
	26	MAXIMUM 4-20 LOOP LOAD, OHMS (@ 24 VDC)	**1000 ohms**		
	27	4-20 OUTPUT SIGNAL, CABLE LENGTH (@ 24 VDC)	**1.29 mm wire = 33,000 m**		
	28	SENSOR REPLACEABLE UNDER POWER	**YES**		
	29	POWER SUPPLY	**10-30 VDC**		
	30	DIGITAL DISPLAY	**LED Alpha Numeric**		
CONTROLLER UNIT	31	CONTROL UNIT REQUIRED	**NO**		
	32	CONTROL UNIT TAG NUMBER			
	33	MODEL NUMBER			
	34	NUMBER OF CHANNELS			
	35	NUMBER OF MULTI-CHANNEL RACKS			
	36	LOCATION			
	37	MOUNTING			
	38	HOUSING NEMA (OR EQUIVALENT) RATING			
	39	POWER SUPPLY			
	40	INTEGRAL LOGIC AND LOOP POWER			
	41	WARNING ALARM: LATCHING / UNLATCHING			
	42	WARNING ALARM SETPOINT, IN MEASUREMENT UNITS			
	43	CRITICAL ALARM SETPOINT, IN MEASUREMENT UNITS			
MISC	43	CRITICAL ALARM: LATCHING / UNLATCHING			
	44	ELECTRICAL AREA CLASSIFICATION	**NRTL Class I Div.1 Group BCD** **ATEX Class I Zone 1 Group IIC**		

1) Standard Junction Box Offered as an Option: Electropolished 316 SS or Aluminum with epoxy paint finish
2) Warranty: Plug-in Sensor Element - 2 year, Intelligent Transmitter Module - 2 year
3) Operating Temp. -40°C to +50°C, Operating Humidity 15% to 90% RH non-condensing
4) Accuracy/Repeatability is +/- 2% of Full Scale
5) Response Time: T90 <90 seconds
6) Microprocessor-controlled, self-diagnostic transmitter electronics with full-script LED display
7) Pre-emptive fault diagnostics including input voltage, output signal, sensor integrity, transmitter integrity, operating temperature
8) Optional sizes on request: 20 mm or 1/2" NPT
9) 4-20 mA = 0-100% FS, 0 mA = Fault, 2 mA = In-Cal, 22 mA = Over-Range
10) Intrinsically-safe barrier design, no flame arrestor required, direct sample gas contact
11) Plug-in sensor contains smart digital interface, allows for seamless interchangeability between transmitter modules
12) Intelligent Transmitter Module is universal, adapts to any sensor type/range. Supports in-situ range change