

Ultima X Series Gas Monitors

A-Ultima X-XP													
1	2	3	4	5	6	7	8	9	10	11	12	13	

1 Model

E = Explosion proof, with display
J = X series junction box (No electronics)

2 Gas Code

Note: The following codes are to be used when ordering an enclosure and PCBA without a sensor and sensor body.
Please see page 2-10 for gas type when ordering a complete unit or a sensor and sensor body.

01 = "Standard" toxics and oxygen
02 = Catalytic
03 = IR Combustible - Please specify gas of interest
04 = "Reactive" toxics (ex. Cl₂, HCl, ClO₂, NH₃, HF, EtO)
05 = IR CO₂

Note: If Gas Code = IR, then Sensor Output ≠ 0
For XIR sensors use A-ULTX-SENS
For typical custom gases, see Custom Gas Chart on page 2-9

3 Configuration

- A = ATEX w/metric threads
- B = ATEX w/NPT threads
- * C = CSA approval w/NPT threads
- > F = FM approval (cFMus) w/NPT threads
- + U = UL approval w/NPT threads
- I = IEC approval w/metric threads

4 Sensor Output

0 = No PCBA (NOTE: Sensor Mounting Style must = N)
1 = 2-Wire mA output
2 = 2-Wire (mA + HART) output
Note: If Gas Code = IR, then Sensor Output ≠ 0
For XIR sensors use A-ULTX-SENS

5 Sensor Mounting Style

S = Sensor mounted on control unit
D = Sensor mounted on remote housing
N = No conduit (choose for sensor/sensor body only)

6 Relays and LEDs

0 = No relays and no LEDs (Required if 2-wire)

6 Future Use

0 = None

7 Display Language/Features

0 = English
S = Spanish
H = English with custom horn software

8 Optional Power Supply (Converts AC to DC)

0 = None
1 = 12 VDC Internal
2 = 24 VDC Internal
3 = 12 VDC External (Bracket not included)
4 = 24 VDC External (Bracket not included)

9 Gas Sample Selection

0 = None – Standard diffusion method

1 = Flow cap assembly / XE
1 = Flow cap assembly / XIR

10 Integrated Accessories

0 = None
1 = XP HART Port (requires cable P/N 10081441)(FM)
2 = Reset/Cal switch - approved for Div. 1, Gr. B-D only (UL)
3 = Both XP HART port & Reset/Cal switch (UL)
Note: Option 3 requires use of a HART module

11 Installation Hardware

0 = None
1 = Bracket
2 = Duct Mount Kit
3 = Brackets + Duct Mount Kit

12 Manuals

alternate quantities can be ordered separately
0 = Standard
1 = Hardcopy + CD

13 Custom Features

0 = None
C = Custom operation necessary
T = Custom Tagging, SS
TC = Custom Tagging/Custom operations necessary
CC = Certificate of calibration request

Gases for Ultima X

Gas Selection Table

11 = Carbon Monoxide 0-100 PPM
12 = Carbon Monoxide 0-500 PPM
13 = Oxygen 0- 10%
14 = Oxygen 0-25%
15 = Hydrogen Sulfide 0-10 PPM
16 = Hydrogen Sulfide 0-50 PPM
17 = Hydrogen Sulfide 0-100 PPM
18 = Chlorine 0-5 PPM
20 = Nitric Oxide 0-100 PPM
22 = Hydrogen Cyanide 0-50 PPM
23 = Hydrogen Chloride 0-50 PPM
24 = Chlorine Dioxide 0-3 PPM
25 = Hydrogen Sulfide 0-500 ppm
26 = Hydrogen Fluoride 0-10 ppm
28 = Chlorine 0-10 PPM
41 = Phosphine 0-2 PPM
42 = Arsine 0-2 PPM
43 = Silane 0-25 PPM
45 = Diborane 0-50 PPM
46 = Bromine 0-5 PPM
47 = Fluorine 0-10 PPM
48 = Ammonia 0–100 PPM
49 = Hydrogen 0-1000 PPM
50 = Ethylene Oxide 0-10 PPM
54 = Ammonia 0-1000 PPM
55 = Solvent Tolerant O₂
57 = Carbon Monoxide 0-1000 PPM
61 = Chlorine 0-20 PPM

62 = Solvent & CO2 Tolerant Oxygen (0 -25%)
63 = Low oxygen (0 -25%)
64 = Low solvent tolerant oxygen (0 -25%)
70 = Sulfur Dioxide 0-25 PPM
71 = Sulfur Dioxide 0-100 PPM
72 = Nitrogen Dioxide 0-10 PPM

Ultima X Series Gas Monitors Spares and Accessories

Infrared Replacement Sensors

10089778 = A-ULTX-SENS-58-4-0
0-100% LEL XIR Methane NPT

Replacement Sensors

10092307 = A-ULTX-SENS-59-4-0
0-100% LEL XIR Propane NPT
10105175 = A-ULTX-SENS-58-3-0
0-100% LEL XIR Methane M25
10100533 = A-ULTX-SENS-59-3-0
0-100% LEL XIR Propane M25
10128320 = A-ULTX-SENS-37-3-0
ULTIMA XIR Sensor CO₂, 5 %, M25, spare

Catalytic Sensors

10096242 = A-ULTX-SENS-51-8-0
0-100% LEL Nat Gas & Hydrogen
10096243 = A-ULTX-SENS-52-8-0
0-100% LEL Petroleum Vapors
10102353 = A-ULTX-SENS-53-8-0
0-100% LEL Solvents

Ammonia Sensors

10102941 = A-ULTX-SENS-48-8-0
ULTIMA XE Spare Sensor 0-100PPM NH₃
10102354 = A-ULTX-SENS-54-8-0
ULTIMA XE Spare Sensor, 1000 PPM NH₃

Arsine Sensors

10102346 = A-ULTX-SENS-42-8-0
ULTIMA XE Spare Sensor, 0-2PPM AsH₃

Bromine Sensors

10102350 = A-ULTX-SENS-46-8-0
ULTIMA XE Spare Sensor, 0-5PPM Br₂

Carbon Monoxide Sensors

10102931 = A-ULTX-SENS-11-8-0
ULTIMA XE Spare Sensor, 0-100ppm CO
10102932 = A-ULTX-SENS-12-8-0
ULTIMA XE Spare Sensor, 0-500ppm CO
10096832 = A-ULTX-SENS-57-8-0
ULTIMA XE Spare Sensor, 1000 PPM CO

Chlorine Sensors

10102936 = A-ULTX-SENS-18-8-0
ULTIMA XE Spare Sensor, 0-5PPM Cl₂
10087263 = A-ULTX-SENS-28-8-0
ULTIMA XE Spare Sensor, 0-10PPM Cl₂
10102355 = A-ULTX-SENS-61-8-0
ULTIMA XE Spare Sensor, 0-20PPM Cl₂

Chlorine Dioxide Sensors

10102343 = A-ULTX-SENS-24-8-0
ULTIMA XE Spare sensor, 0-3PPM ClO₂

Diborane Sensors

10102349 = A-ULTX-SENS-45-8-0
ULTIMA XE Spare Sensor, 0-50PPM B₂H₆

Ethylene Oxide Sensors

10102942 = A-ULTX-SENS-50-8-0
ULTIMA XE Spare Sensor, 0-10PPM EtO

Fluorine Sensors

10102351 = A-ULTX-SENS-47-8-0
ULTIMA XE Spare Sensor, 5ppm F₂

Hydrogen Sensors

10102352 = A-ULTX-SENS-49-8-0
ULTIMA XE Spare Sensor, 0-1000PPM H₂

Hydrogen Chloride Sensors

10082175 = A-ULTX-SENS-23-8-0
ULTIMA XE Spare Sensor, 0-50PPM HCl

Hydrogen Cyanide Sensors

10093532 = A-ULTX-SENS-22-8-0
ULTIMA XE Spare Sensor, 0-50PPM HCN

Hydrogen Fluoride Sensors

10102344 = A-ULTX-SENS-26-8-0
ULTIMA XE Sensor komp, 0-10PPM HF

Hydrogen Sulphide Sensors

10102934 = A-ULTX-SENS-15-8-0
ULTIMA XE Spare Sensor, 0-10PPM H₂S
10102935 = A-ULTX-SENS-16-8-0
ULTIMA XE Spare Sensor, 0-50PPM H₂S
10095516 = A-ULTX-SENS-17-8-0
ULTIMA XE Spare Sensor, 0-100PPM H₂S
10122186 = A-ULTX-SENS-25-1-0
ULTIMA XE Spare Sensor, 500 PPM H₂S

Nitric Oxide Sensors

10082296 = A-ULTX-SENS-20-8-0
ULTIMA XE Spare Sensor, 0-100PPM NO

Nitrogen Dioxide Sensors

on request =
ULTIMA XE Spare Sensor, 0-10PPM NO₂, with sinter
10155684 = A-ULTX-SENS-72-8-0
ULTIMA XE,10ppm NO₂, without sinter

Oxygen Sensors

10102342 = A-ULTX-SENS-13-8-0
ULTIMA XE Spare Sensor, 0-10% Oxygen
10102933 = A-ULTX-SENS-14-8-0
ULTIMA XE Spare Sensor, 0-25% Oxygen

Phosphine Sensors

10102345 = A-ULTX-SENS-41-8-0
ULTIMA XE Spare Sensor, 0-2PPM PH₃

Silane Sensors

10102347 = A-ULTX-SENS-43-8-0
ULTIMA XE Spare Sensor, 0-25PPM SiH₄

Sulfur Dioxide Sensors

on request =
ULTIMA XE, Spare Sensor, 0-25PPM SO₂, with sinter
on request =
ULTIMA XE Spare Sensor, 0-100PPM SO₂, with sinter
10155686 = A-ULTX-SENS-70-8-0
ULTIMA XE,25ppm SO₂, without sinter
10155687 = A-ULTX-SENS-71-8-0
ULTIMA XE,100ppm SO₂, without sinter

Electronics

10159532 = ULTIMA XE/IR Sp PCB, NO Rel, NO LED, 2-wire
10151275 = ULTIMA XE/IR Sp PCB, NO Rel, NO LED, 3-wire
10124494 = ULTIMA XE/IR Spare PCB, NO Rel, with LEDs
10122622 = ULTIMA XE/IR Spare PCB, with Rel, with LED

Installation Options

10047561 = KIT, ULTIMA X, MOUNTING BRACKET

10053748 = KIT:DUCT MOUNT,ULTIMA XE REMOTE SENSOR
10053749 = KIT:DUCT MOUNT,ULTIMA X SENSOR

Accessories

10004022 = ULTIMA Controller ATEX
10004024 = ULTIMA Calibrator ATEX
10074014 = ULTIMA XE, external push button
10020030 = CAP:CALIBRATION,SENSORGARD,ULTIMA SENSOR
10028904 = COVER:ENVIRO,SENSOR,ULTIMA X SERIES
10041265 = GUARD,ENVIRONMENTAL,ULTIMA X IR
10041533 = GUARD,CALIBRATION,ULTIMA X IR
10041866 = FLOW BLOCK ASSEMBLY:ULTIMA X SERIES
10042600 = KIT:SEALED FLOW,IR
10051871 = ULTIMA XE, SAFETY BARRIER WITH POTTING
10110811 = SUNSHADE FOR ULTIMA XE / SERIES 47K
10110812 = SUNSHADE FOR ULTIMA XIR
10038041 = LID ASSEMBLY:ULTIMA XE,SHORT,EUROPEAN