

# Ultima® OPIR-5

## Quick Guide



## Applications

- Offshore platforms
- FPSO's
- Gas plants
- Around spherical tanks
- Down the length of several bullet tanks
- Compressor stations
- Fence line monitoring
- Rail and truck load outs
- Landfills
- Urban industrial settings

*Because every life has a **purpose...***

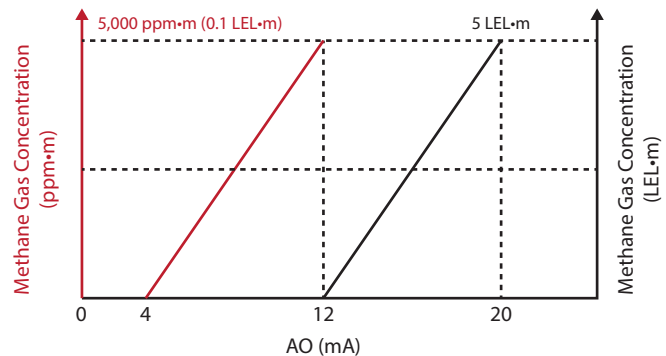


## CLEAR • MEASURE • SOURCE • RECEIVER

- Ensure the path is **CLEAR** between the Source and Receiver.
- **MEASURE** the distance between the Source and Receiver to get the best AJ Values
- Start the Alignment at the **SOURCE**
- Finalize the setup at the **RECEIVER**

### Things to Consider

- Use two people for alignment, one at Source and one at Receiver
- Automatic gain control compensates for dirty optics, rain, and fog
- Source and Receiver should not be mounted close to radio sources or similar equipment
- Mount away from sources of excessive vibration and high voltage/high current power lines
- If the path length is less than 20 meters (65 feet), a Source with an attenuation plate is required
- A Long Range Alignment Kit is recommended for separations of 60 meters or more
- If using adjacent detectors, install Receivers at opposite ends to prevent light interference measurement errors
- Field calibration is not required and the sensitivity can be checked by placing a test gas film in front of the Receiver



Typical AJ Values			
Distance	20 m	50 m	100 m
STANDARD	50-60	40-50	25-35
EXTENDED	N/A	45-55	30-40

Specification	Ultima OPIR-5
RESPONSE TIME (T90, S)	≤3
REPEATABILITY	<±5%
LINEARITY	<±5% FS or ±10% Applied Gas
PATH LENGTH, MAX (M)	30 (short), 100 (standard)
OPERATING TEMPERATURE RANGE ( °C)	-55 to +65
SOLAR BLIND	All conditions
FOG IMMUNITY BASED ON FM 6325	95% blockage
COMBINED WEIGHT, RECEIVER AND SOURCE (KG)	11 (SS only)
SUPPLY POWER, NOMINAL (W)	23
BIDIRECTIONAL COMMUNICATION	HART, Modbus
EVENT LOGGING/AMS DEVICE MANAGER	Available
TWO AVAILABLE SCALES	
LIGHT HYDROCARBONS	0-5000 ppm*m & 0-5 LEL*m
HEAVY HYDROCARBONS	0-2000 ppm*m & 0-1 LEL*m

**Note:** This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



ID 0782-010-MCe / Mar 2017  
© MSA 2015 Printed in U.S.A.

**MSA – The Safety Company**  
1000 Cranberry Woods Drive,  
Cranberry Township, PA 16066 USA  
Phone 724-776-8600  
[www.MSAsafety.com](http://www.MSAsafety.com)  
**U.S. Customer Service Center**  
Phone 1-800-MSA-2222  
Fax 1-800-967-0398  
**MSA Canada**  
Phone 1-800-672-2222  
Fax 1-800-967-0398

**MSA Mexico**  
Phone 01 800 672 7222  
Fax 52-44 2227 3943

**MSA International**  
Phone 724-776-8626  
Toll Free 1-800-672-7777  
Fax 724-741-1553  
Email [msa.international@msasafety.com](mailto:msa.international@msasafety.com)