



# Table of Contents

System Drawing.....	2
Probe Details.....	3
MAS Electronic Communicator Details.....	4
Hardware Enclosure Details.....	5
Accessories Details .....	6
Probe Customization.....	7
Enclosure Customization.....	8
Software.....	9

# System Drawing



## MAS ELECTRONIC COMMUNICATOR UNIT

- Wi-Fi (802.11b/g/n)
- USB port 3.0
- APP

Detailed Specifications go to page 4



## ENCLOSURE

- Material - Flame Retardant Polycarbonate
- Flame Rating
  - UL 94 : V-0
  - UL 746C : 5VA
- COLOR-grey
- Waterproof

Detailed Specifications go to page 5



## OPTIONAL

- Micro USB adapter
- Weatherproof Cap

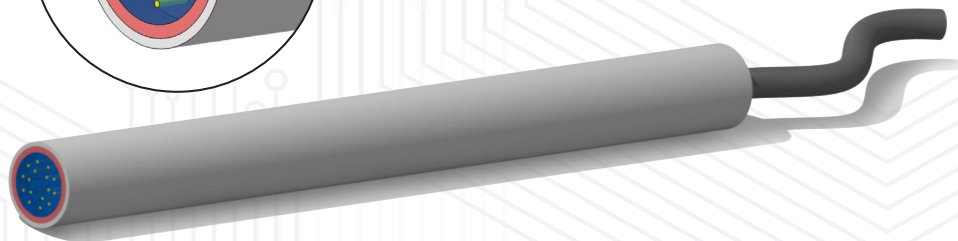
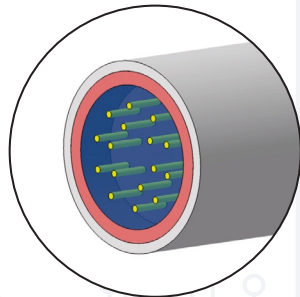
Detailed Specifications go to page 6



## PROBE

- Probe ID : MAS-AA-XXXX-YY-BB-CC
- Temperature range: from -200°C to +400°C
- Resolution: 0.1mpy (0.0025mm/y)
- Unit Accuracy: 0.4mpy (0.01mm/y)

Detailed Specifications go to page 3



## POWER SUPPLY

- Adaptor:
  - Input-100-240V 50/60Hz 0.35A max
  - Output- 5V, 2A output
- Battery
- 3.7v 1000mAh

Detailed Specifications go to page 6




ASSY. NO.	PART DESCRIPTION	QTY.	COMPANY NAME	AGINOVA TECHNOLOGIES PVT.LTD.
1	ENCLOSURE	1 SET	PRODUCT DESCRIPTION	MAS PROBE
2	PROBE	1 SET	PRODUCT ID	MAS-AA-XXXX-YY-BB-CC
3	MAS ELECTRONIC COMMUNICATOR ASSY.	1 SET	DRAWING NO.	MAS050122017-A1
4	POWER SUPPLY	1 SET	PRODUCT REV.	A
5	OPTIONAL			
SHEET	DATE	SCALE		
A4	05/02/2018	1:1		

# Probe Details

## Specifications:

- Probe ID : MAS-AA-DD-XXXX-YY-BB-CC
- Temperature range:  
from -200°C (-328°F) to +400°C (752°F)
- Resolution: 0.1mpy (0.0025mm/y)
- Unit Accuracy: 0.4mpy (0.01mm/y)

ASSY. NO.	PART DESCRIPTION	QTY.	COMPANY NAME	AGINOVA TECHNOLOGIES PVT.LTD.
1	SS316 PINS	16	PRODUCT DESCRIPTION	16 PIN MAS PROBE
2	SS PIPE	01		
3	DELRINE SLEEVE	01	PRODUCT ID	MAS-AA-DD-XXXX-YY-BB-CC
4	END CAP	01		
5	CABLE	01		
			DRAWING NO.	
SHEET	DATE	SCALE	PRODUCT REV.	
A4	05/02/2018	1:1	A	

## MAS-AA-DD-XXXX-YY-BB-CC

PROBE TYPE

NO.OF PINS

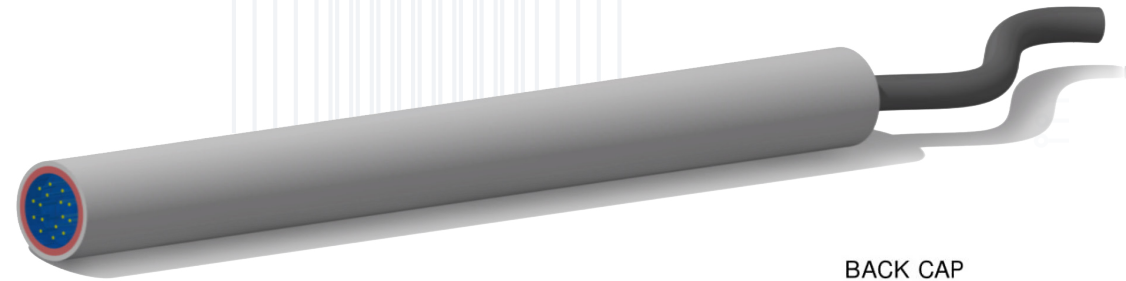
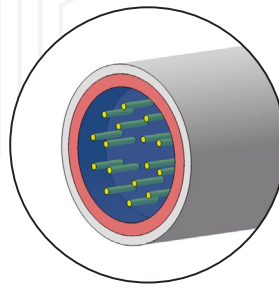
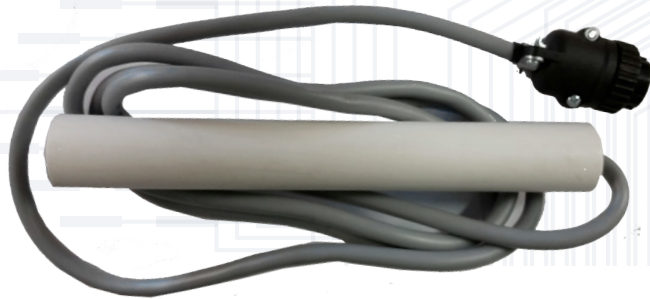
PIN DIA

PIN MATERIAL

PROBE BODY MATERIAL

PROBE BODY OUTER DIAMETER (in)

PROBE BODY LENGTH (in)



MATERIAL FILLED IN PROBE BODY

PROBE BODY OD

LENGTH OF THE PROBE BODY - VARIABLE, UP TO 30" (76CM)

BACK CAP OF THE PROBE

SLEEVE  
use delrine  
up to 150°C

16 NOS

PIN OD

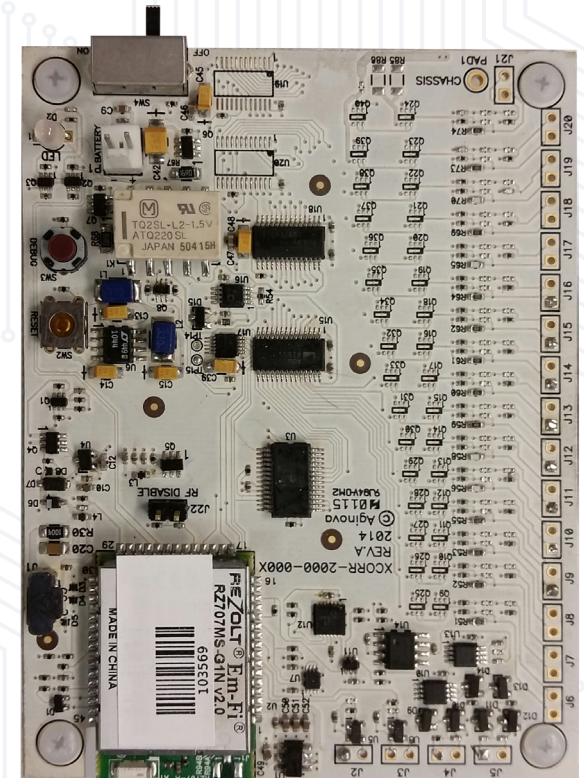
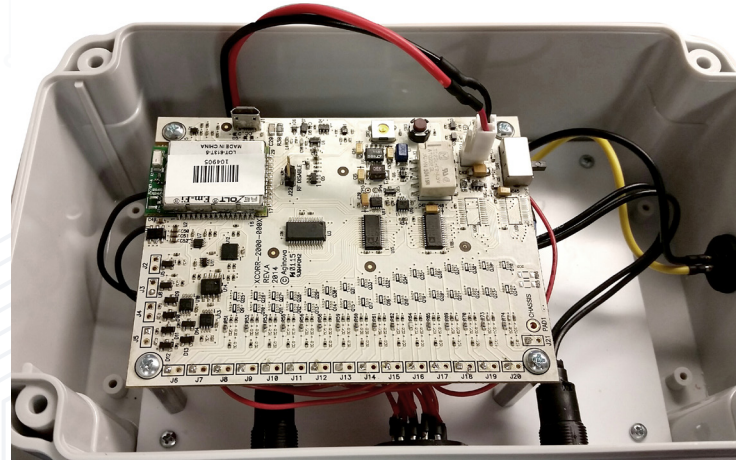
SPRING

CABLE

# MAS Electronic Communicator Details

## Specifications:

- Low Power Wi-Fi (802.11b/g/n)
- USB port 3.0
- APP works with iOS platform
- Includes 2000-8000mAh Li-ion battery
- Supports 4-16 pin probe



## OPTIONAL CELL PHONE LTE:

Develop LTE electronics to work with WiFi electronics for remote monitoring from anywhere.

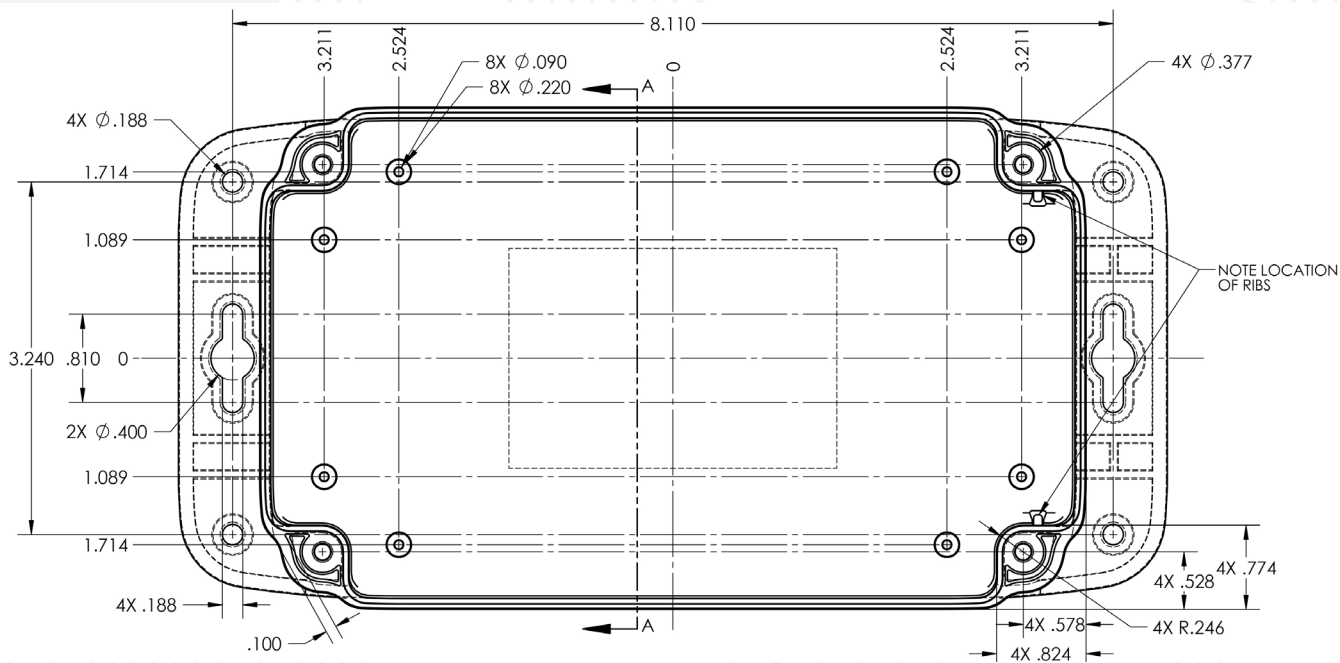


# Hardware Enclosure

## Details

### Specifications:

- Materials:  
Standard: Flame Retardant Polycarbonate  
Alternatives: stainless steel, aluminium
- Flame Rating  
UL 94 : V-0  
UL 746C : 5VA
- COLOR-light grey
- Waterproof



# Accessories Details

## POWER SUPPLY

Adaptor:

- Input-100-240V 50/60Hz 0.35A max
- Output- 5V, 2A output
- Battery • 3.7v 1000mAh



## OPTIONAL

- Micro USB adapter
- Weatherproof Cap



# Probe Customization

## Specifications:

- Probe ID : CAP-AA-DD-XXXX-YY-BB-CC
- Temperature range:  
from -200°C (-328°F) to +400°C (752°F)
- Resolution: 0.1mpy (0.0025mm/y)
- Unit Accuracy: 0.4mpy (0.01mm/y)
- Estimated pH Range = 2-11
- Estimated pH Accuracy = 0.2
- Monitoring Capability  
to include MAS, pH, Cl and T

**CAP-AA-DD-XXXX-YY-BB-CC**

PROBE  
TYPE

NO.OF  
PINS

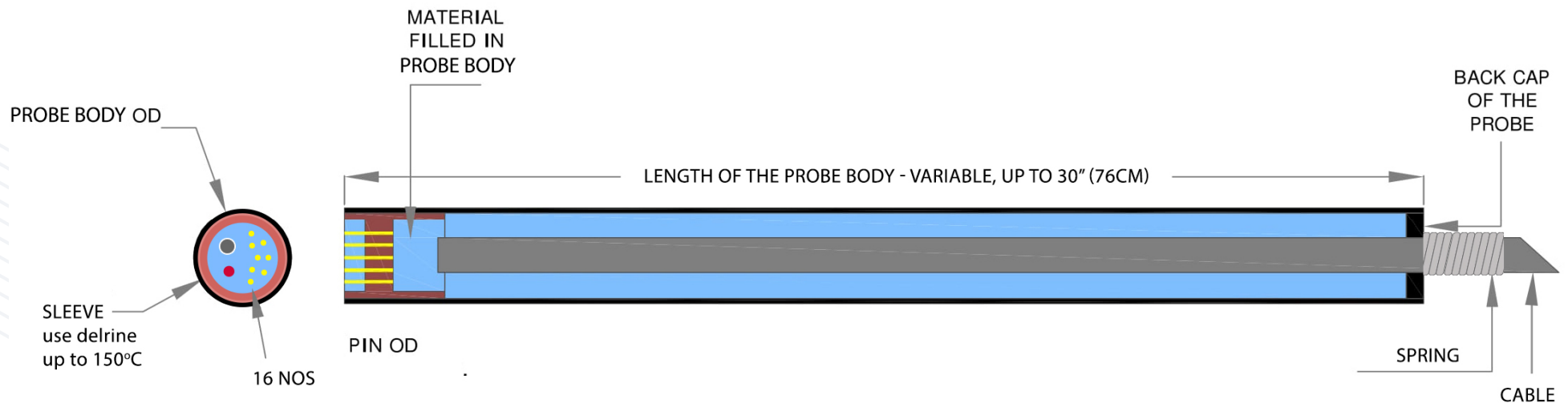
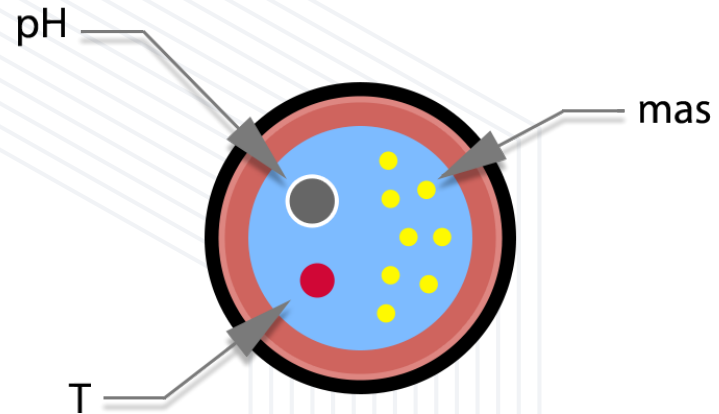
PIN  
DIA

PIN  
MATERIAL

PROBE BODY  
MATERIAL

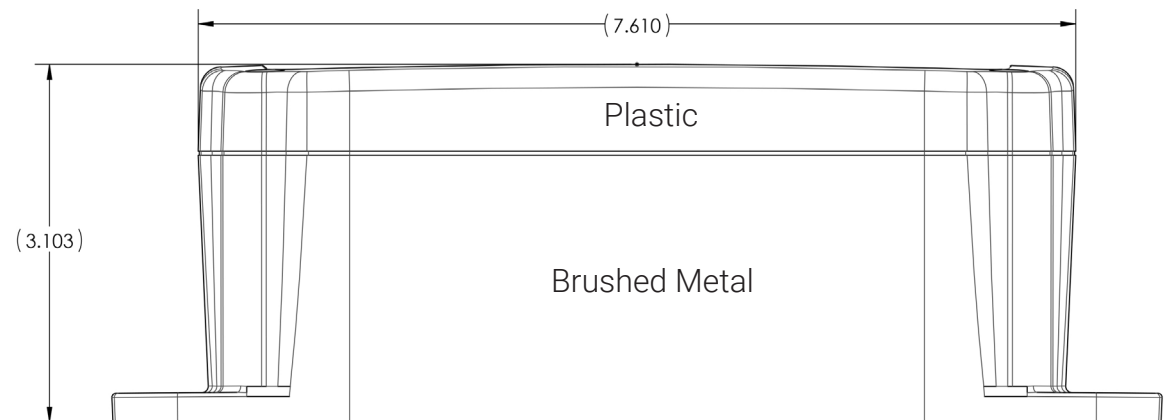
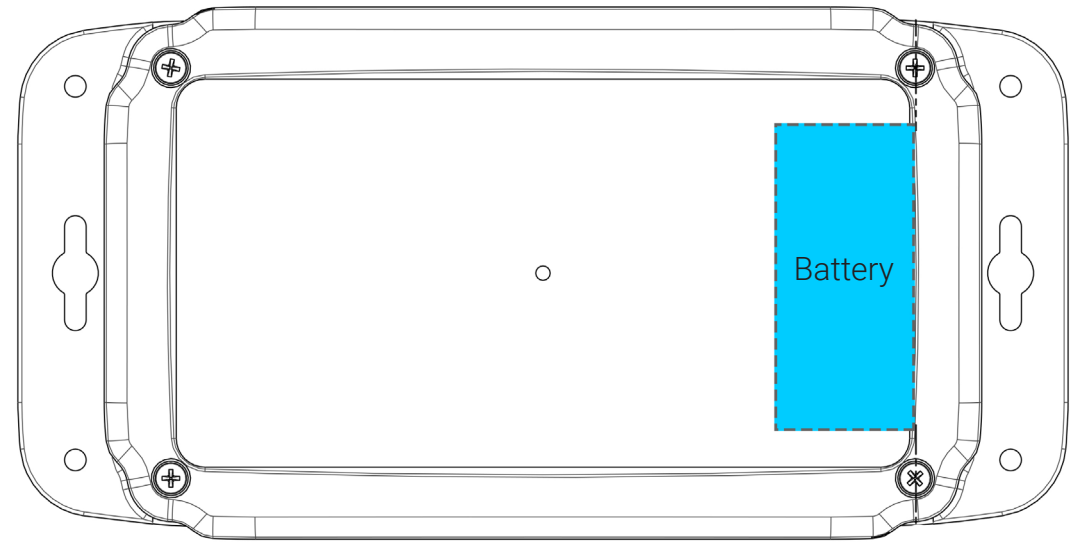
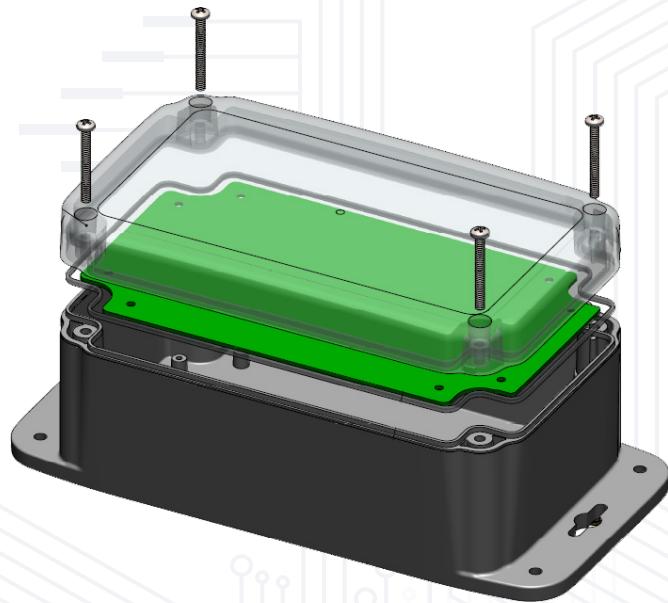
PROBE BODY  
DIAMETER  
(in)

PROBE BODY  
LENGTH  
(in)



# Enclosure Customization

HW-CUST-ENCLOSURE





# Software

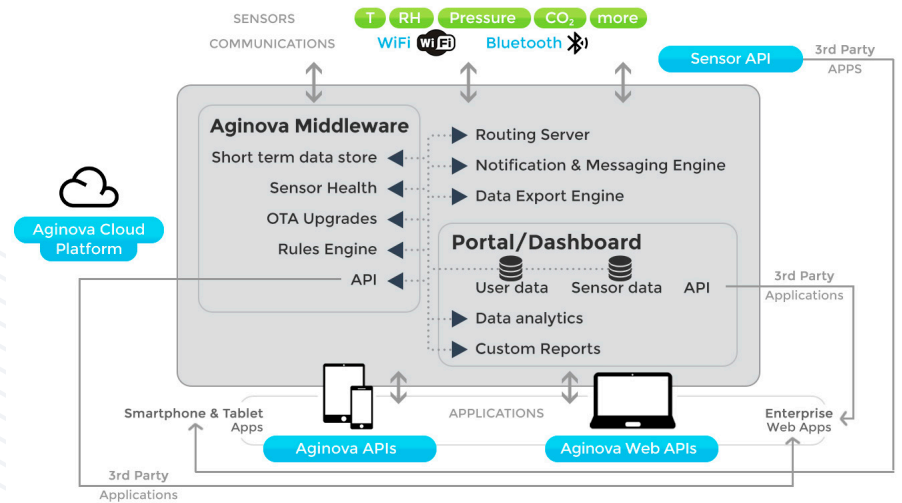
## CorrWatch

An iOS based to be used with the MAS and CAPs system for corrosion monitoring. The app can be used to directly extract sensor data from the sensors or to view the corrosion rates remotely.

SW-WIBOX

SW-PORTAL-EXTRA-LICENSE


SER-PORTAL-HOSTED




# APPENDIX

Number	Description
1	XCORR-2000-XXXX ; WiFi Communication system supporting MAS, pH and T sensors
2	HW-ENCLOSURES ; NEMA enclosures for use in Hazardous environment
3	HW-ACCESSORIES ; Power supply, fittings, cables etc.
4	MAS-AA-DD-XXXX-YY-BB-CC Custom built probe for MAS and T
5	CAP-AA-DD-XXXX-YY-BB-CC New Custom probe under design to include MAS, pH and T



 7552 Central Parke Blvd.  
Mason, OH 45040

 +1 513 204 5837

 [elf@aginoa.com](mailto:elf@aginoa.com)

 [www.aginoa.com](http://www.aginoa.com)