

# **PURA PRODUCT RANGE**

### Pura Transmitter 2-wire 4-20 mA

Fula Hallstillicer 2-Wire 4-20 IIIA			
Product Parent Code: PUR-TX-2W Pura Transmitter 2-wire 4-20 mA			
Product Orde	ring Code {Feature	A}+{Feature B}+{Feature C}	
Feature	Item	Description	
Feature {A}	Base Model		
	PUR-TX-2W	Pura Transmitter 2-wire 4-20 mA	
Feature {B}	Version		
	PRM	Double bagged	
	OEM	Single bagged	
	SEN	Sensor only, no block	
Feature {C}	Range		
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range	
	(v/wx-yz)	Non-standard measurement range:  v = zero value, w = full scale value, x = unit (C = °Cdp, F=°Fdp, P=ppmV) y = Pressure for ppmV conversion in bar/psi, z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig)  e.g. 0-100ppm @ 10barg = 0/100P-10BG	

# Pura M12 Transmitter 2-wire 4-20 mA

	Product Parent Code: PUR-TX-2W-M12 Pura Transmitter 2-wire 4-20 mA			
Product Orde	ring Code {Feature	A}+{Feature B}+{Feature C}		
Feature	Item	Description		
Feature {A}	Base Model			
	PUR-TX-2W-M12	Pura M12 Transmitter 2-wire 4-20 mA		
Feature {B}	Version			
	PRM	Double bagged		
1	OEM	Single bagged		
	SEN	Sensor only, no block		
Feature {C}	Range			
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range		
	(v/wx-yz)	Non-standard measurement range: v = zero value, w = full scale value, x = unit (C = °Cdp, F=°Fdp, P=ppmV) y = Pressure for ppmV conversion in bar/psi, z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig) e.g. 0-100ppm @ 10barg = 0/100P-10BG		

# Pura Transmitter 3-wire 4-20 mA

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Product Parent Code: PUR-TX-3W Pura Transmitter 3-wire 4-20 mA			
Product Orde	ring Code {Featur	e A}+{Feature B}+{Feature C}	
Feature	Item	Description	
Feature {A}	Base Model	•	
	PUR-TX-3W	Pura Transmitter 3-wire 4-20 mA	
Feature {B}	Version	•	
	PRM	Double bagged	
	OEM	Single bagged	
	SEN	Sensor only, no block	
Feature {C}	Range	•	
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range	
	(v/wx)	Non-standard measurement range: $v = zero value$ , $w = full scale value$ , $x = unit (C = °Cdp, F=°Fdp)$	



#### Pura Hazardous Area Transmitter 2-wire 4-20 mA

Product Parent Code: PUR-IS-2W Pura Hazardous Area Transmitter 2-wire 4-20 mA			
Product Orde	ring Code {Feature	e A}+{Feature B}+{Feature C}	
Feature	Item	Description	
Feature {A}	Base Model		
	PUR-IS-2W	Pura Transmitter 2-wire 4-20 mA	
Feature {B}	Version		
	PRM	Double bagged	
	OEM	Single bagged	
	SEN	Sensor only, no block	
Feature {C}	Range		
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range	
	(v/wx-yz)	Non-standard measurement range:  v = zero value, w = full scale value,  x = unit (C = °Cdp, F=°Fdp, P=ppmV)  y = Pressure for ppmV conversion in bar/psi,  z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig)  e.q. 0-100ppm @ 10barg = 0/100P-10BG	

#### **Ordering Example**

PUR-TX-2W+OEM+(0/100P) Pura Transmitter 2-wire, 4-20 mA, OEM, scaled 0 to 100 ppmV

#### **PURA ACCESSORIES AND SPARE PARTS**

PURA ACCESSURIES AND SPARE PARTS			
Order Codes	Product / Description		
Spares			
GEN-LABEL	Additional/replacement transmitter labels (price per 2 off labels)		
EA2-SC	MiniDIN sensor connector socket		
EA2-SCG	Sensor Connector MiniDIN Gasket		
Sampling Accessories			
DP-MC	BS EN 10204 – type 3.1 Material Certificates (No transfers or distributor discounts)		
* GEN-VCRW14GR	1/4" VCR Washer with Gasket Retainer		
* GEN-14VCR6	1/4" VCR Female to 6mm Swagelok Tube		
* GEN-14VCR14	1/4" VCR Female to 1/4" Swagelok Tube		
* GEN-VCRW12	1/2" VCR Washer for sensor to sensor block connection		
Electrical Accessories			
GI-PF-01	KFD0-CS-EX1.50P galvanic isolator (Pepperl & Fuchs)		
EA2-CAB-02	Cable, 2m (6.56') length with mini-DIN mating socket		
EA2-CAB-05	Cable, 5m (16.4') length with mini-DIN mating socket		
EA2-CAB-10	Cable, 10m (32.8') length with mini-DIN mating socket		
	Other cable lengths available upon request		
EA2-M12-CAB-0.8	Sensor Cable, 0.8m (2.62') with M12 Sensor Connector		
EA2-M12-CAB-02	Sensor Cable, 2m (6.56') with M12 Sensor Connector		
EA2-M12-CAB-05	Sensor Cable, 5m (16.4') with M12 Sensor Connector		
EA2-M12-CAB-10	Sensor Cable, 10m (32.8') with M12 Sensor Connector		
	Other cable lengths available upon request		

# **PURA ACCESSORIES AND SPARE PARTS**

Order Codes		Product / Description	
Product Order	ring Code {Feature	A}+{Feature B}	
Feature {A}	Base Model		
	EAU-CK	Easidew, SF82 & Pura Universal Comms Kit	
Feature {B}	Cable		
	B1	EA2 MiniDIN Connector 0.5m sensor lead	
	B2	EA PRO IS & EA PRO XP Terminal Block Connector 0.5m sensor lead	
	B3	EA2 5 Way M12 Connector 0.5m sensor lead (not suitable for SF72 Rail M12 4 pin)	



# **EAU-CK ACCESSORIES AND SPARE PARTS**

EAU-CK-CAB1	Spare EA2 MiniDIN Connector 0.5m sensor lead
EAU-CK-CAB2	Spare EA PRO IS & EA PRO XP Terminal Block Connector 0.5m sensor lead
EAU-CK-CAB3	Spare EA2 5 Way M12 Connector 0.5m sensor lead (not suitable for SF72 Rail M12 4 pin)

# **PURA SERVICE EXCHANGE** - Available only with the Sensor (SEN) mechanical option. No OEM or PRM mechanical options will be available

mechanical options will be available				
Service E	Service Exchange will be charged at new unit price when the order is placed. After the old sensor is			
	Product Parent Code: PUR-TX-X Service Exchange			
<b>Product Orde</b>	ring Code {Feature	A}+{Feature B}+{Feature C}		
Feature	Item	Description		
Feature (A)	Base Model			
	PUR-TX-X	Pura Service Exchange Transmitter (supplied with traceable calibration cert. Old sensor to be returned to MIL sales office in 14 days)		
Feature {B}	Version			
	2W	2-wire transmitter		
	3W	3-wire transmitter		
	AOL-SEN-D	Digital transmitter for advanced online monitor		
Feature {C}	Range			
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range		
	(v/wx-yz)	Non-standard measurement range:  v = zero value, w = full scale value,  x = unit (C = °Cdp, F=°Fdp, P=ppmV)  y = Pressure for ppmV conversion in bar/psi,  z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig)  e.g. 0-100ppm @ 10barg = 0/100P-10BG		

Product Parent Code: PUR-IS-2W-X Service Exchange			
Product Orde	ring Code {Feature	e A}+{Feature B}+{Feature C}	
Feature	Item	Description	
Feature {A}	Base Model	•	
	PUR-IS-2W-X	Pura Transmitter 2-wire Service Exchange	
Feature {B}	eature {B} Version		
	SEN	Sensor only, no block	
Feature {C}	Range		
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range	
	(v/wx-yz)	Non-standard measurement range:  v = zero value, w = full scale value,  x = unit (C = °Cdp, F=°Fdp, P=ppmV)  y = Pressure for ppmV conversion in bar/psi,  z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig)  e.g. 0-100ppm @ 10barg = 0/100P-10BG	

Product Parent Code: PUR-TX-2W-M12-X Service Exchange			
Product Orde	ring Code {Feature	A}+{Feature B}+{Feature C}	
Feature	Item	Description	
Feature {A}	Base Model		
	PUR-TX-2W-M12-X	Pura M12 Transmitter 2-wire Service Exchange	
Feature {B}	Version		
	SEN	Sensor only, no block	
Feature {C}	Range		
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range	
	(v/wx-yz)	Non-standard measurement range: v = zero value, w = full scale value, x = unit (C = °Cdp, F=°Fdp, P=ppmV) y = Pressure for ppmV conversion in bar/psi, z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig) e.g. 0-100ppm @ 10barg = 0/100P-10BG	



# **PURA CALIBRATION SERVICES**

Order Codes	Product / Description
PUR-TX-PRM-Recal	Recalibration of Pura Premium (13 points between -100 and +20°C (-184 to +68°F) dp. Supplied w/calibration certificate traceable to national standards)
PUR-TX-OEM-Recal	Recalibration of Pura OEM (13 points between -100 and +20°C (-184 to +68°F) dp. Supplied w/calibration certificate traceable to national standards)
PUR-TX-SEN-Recal	Recalibration of Pura Sensor (13 points between -100 and +20°C (-184 to +68°F) dp. Supplied w/calibration certificate traceable to national standards)
PUR-TX-IS-PRM-CAL	Recalibration of Pura IS Premium (13 points between -100 and +20°C (-184 to +68°F) dp. Supplied w/calibration certificate traceable to national standards)
PUR-TX-IS-OEM-CAL	Recalibration of Pura IS OEM (13 points between -100 and +20°C (-184 to +68°F) dp. Supplied w/calibration certificate traceable to national standards)
PUR-TX-IS-SEN-CAL	Recalibration of Pura I.S. (Supplied w/calibration certificate traceable to national standards)
READINGS-DPS	Readings before calibration (calibration data recorded before adjustment) - Dew-Point Sensors



# **PURA PRODUCT RANGE**

#### **Pura Online Hygrometer**

	Product Parent Code: PUR-OL Pura Online Hygrometer (includes PUR-TX-2W Sensor)		
Product Orde	ring Code {Featu	re A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}	
Feature	Item	Description	
Feature {A}	Base Model		
	PUR-OL	Pura Online Hygrometer (includes PUR-TX-2W Sensor)	
Feature {B}	Version		
	PRM	Double bagged	
	OEM	Single bagged	
	SEN	Sensor only, no block	
Feature {C}	Range		
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range	
	(v/wx-yz)	Non-standard measurement range: v = zero value, w = full scale value, x = unit (C = °Cdp, F=°Fdp, P=ppmV) y = Pressure for ppmV conversion in bar/psi, z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig) e.g. 0-100ppm @ 10barg = 0/100P-10BG	
Feature {D}	Power		
	AC	85 to 265 V AC	
	DC	24 V DC	
Feature {E}	Cable		
	SC02	Standard sensor cable 2m (6.56') with fittings	
	SC05	Standard sensor cable 5m (16.4') with fittings	
	SC10	Standard sensor cable 10m (32.8') with fittings	
		Other cable lengths available upon request	

	Pura Hazardous Area Online Hygrometer		
	nt Code: PUR-IS-	<del></del>	
	ous Area Online H IST BE USED IN S	ygrometer (not supplied with galvanic isolator) (includes PUR-IS-2W Sensor)	
		re A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}	
Feature	Item	Description	
	- Cutano		
	PUR-IS-OL	Pura Hazardous Area Online Hygrometer (not supplied with galvanic isolator) (includes PUR-IS-2W Sensor)	
Feature {B}	Version		
	PRM	Double bagged	
	OEM	Single bagged	
	SEN	Sensor only, no block	
Feature {C}	Range		
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range	
	(v/wx-yz)	Non-standard measurement range: v = zero value, w = full scale value, x = unit (C = °Cdp, F=°Fdp, P=ppmV) y = Pressure for ppmV conversion in bar/psi, z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig) e.g. 0-100ppm @ 10barg = 0/100P-10BG	
Feature {D}			
	AC	85 to 265 V AC	
	DC	24 V DC	
Feature {E}	Cable		
	SC02	Standard sensor cable 2m (6.56') with fittings	
	SC05	Standard sensor cable 5m (16.4') with fittings	
	SC10	Standard sensor cable 10m (32.8') with fittings	
		Other cable lengths available upon request	

### **Pura Online Hygrometer Monitor Only**

	Product Parent Code: PUR-OL-MON Pura Online Hygrometer Monitor Only (Spare Monitor for Online and Hazardous Online Systems)		
<b>Product Orde</b>	ring Code {Featu	re A}+{Feature B}+{Feature C}+{Feature D}	
Feature	Item	Item Description	
Feature {A}	Base Model	Base Model	
	PUR-OL-MON	Pura Online Hygrometer Monitor Only (Spare Monitor for Online and Hazardous Online Systems)	
Feature {B}	Range	Range	
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range	
Feature {C}	Power		
	AC	AC 85 to 265 V AC	
	DC	24 V DC	



Feature {D}	Cable	
	SC02	Standard sensor cable 2m (6.56') with fittings
	SC05	Standard sensor cable 5m (16.4') with fittings
	SC10	Standard sensor cable 10m (32.8') with fittings
		Other cable lengths available upon request

#### **Ordering Example**

	Pura Online Hygrometer, Premium, double-bagged, 0/100 ppmV, 85 to 265 V AC power supply, 5m sensor cable assembly
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#### **PURA ACCESSORIES AND SPARE PARTS**

Order Codes	Product / Description
Spares	L
GEN-LABEL	Additional/replacement transmitter labels (price per 2 off labels)
EA2-SC	MiniDIN sensor connector socket
EA2-SCG	Sensor Connector MiniDIN Gasket
Sampling Accessories	<u> </u>
DP-MC	BS EN 10204 – type 3.1 Material Certificates (No transfers or distributor discounts)
* GEN-VCRW14GR	1/4" VCR Washer with Gasket Retainer
* GEN-14VCR6	1/4" VCR Female to 6mm Swagelok Tube
* GEN-14VCR14	1/4" VCR Female to 1/4" Swagelok Tube
* GEN-VCRW12	1/2" VCR Washer for sensor to sensor block connection
Electrical Accessories	<u> </u>
GI-PF-01	KFD0-CS-EX1.50P galvanic isolator (Pepperl & Fuchs)
EA2-CAB-02	Cable, 2m (6.56') length with mini-DIN mating socket
EA2-CAB-05	Cable, 5m (16.4') length with mini-DIN mating socket
EA2-CAB-10	Cable, 10m (32.8') length with mini-DIN mating socket
	Other cable lengths available upon request
EA2-OL-MON-29739	RS485 Serial Comms Cable for Online monitor

Order Codes		Product / Description	
Product Order	ring Code {Featu	re A}+{Feature B}	
Feature {A}	Base Model		
	EAU-CK	Easidew, SF82 & Pura Universal Comms Kit	
Feature {B}	Cable		
	B1	EA2 MiniDIN Connector 0.5m sensor lead	
	B2	EA PRO IS & EA PRO XP Terminal Block Connector 0.5m sensor lead	
	B3	EA2 5 Way M12 Connector 0.5m sensor lead (not suitable for SF72 Rail M12 4 pin)	

# **EAU-CK ACCESSORIES AND SPARE PARTS**

EAU-CK-CAB1	Spare EA2 MiniDIN Connector 0.5m sensor lead
EAU-CK-CAB2	Spare EA PRO IS & EA PRO XP Terminal Block Connector 0.5m sensor lead
EAU-CK-CAB3	Spare EA2 5 Way M12 Connector 0.5m sensor lead (not suitable for SF72 Rail M12 4 pin)

**PURA CALIBRATION SERVICES - See details on previous page** 



# **PURA PRODUCT RANGE**

#### **Pura Advanced Online Hygrometer**

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	Product Parent Code: PUR-AOL Pura Advanced Online Hygrometer (includes Pura Digital Sensor)		
Product Orde	ring Code {Featu	re A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}+{Feature F}+{Feature G}+{Feature H}	
Feature	Item	Description	
Feature {A}	Base Model		
	PUR-AOL	Pura Advanced Online Hygrometer (includes Pura Digital Sensor)	
Feature {B}	Version		
	PRM	Double bagged	
	OEM	Single bagged	
	SEN	Sensor only, no block	
Feature {C}	Range		
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range	
	(v/wx-yz)	Non-standard measurement range: v = zero value, w = full scale value, x = unit (C = °Cdp, F=°Fdp, P=ppmV) y = Pressure for ppmV conversion in bar/psi, z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig) e.g. 0-100ppm @ 10barg = 0/100P-10BG	
Feature {D}	Power		
	AC	85 to 265 V AC and 95 to 370V DC	
	DC	9 to 60 V DC and 18 to 36 V AC	
Feature {E}	Alarms		
	A2	Two alarm relays	
	A3	Three alarm relays	
	A4	Four alarm relays	
Feature {F}	Analog O/P		
	mA	4-20 mA output	
	V10	0-10 V output	
Feature {G}	Digital O/P		
	232	RS232 output	
	485	RS485 output	
Feature {H}	Cable		
	SC02	Standard sensor cable 2m (6.56') with fittings	
	SC05	Standard sensor cable 5m (16.4') with fittings	
	SC10	Standard sensor cable 10m (32.8') with fittings	
		Other cable lengths available upon request	

#### **Digital Sensor for Pura Advanced Online Hygrometer**

	Product Parent Code: PUR-AOL-SEN-D Digital Sensor for Pura Advanced Online Hygrometer		
Product Order	Product Ordering Code {Feature A}+{Feature B}+{Feature C}		
Feature	Item	Item Description	
Feature {A}	Base Model	Base Model	
	PUR-AOL-SEN-D	Digital Sensor for Pura Advanced Online Hygrometer	
Feature {B}	Version		
	PRM	Double bagged	
	OEM Single bagged		
	SEN	Sensor only, no block	
Feature {C}	Range		
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range	



### **Pura Advanced Online Hygrometer Monitor Only**

Product Parer	duct Parent Code; PUR-AOL-MON		
		neter Monitor Only	
Product Orde	ring Code {Featu	re A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}+{Feature F}+{Feature G}	
Feature	Item	Description	
Feature {A}	Base Model		
	PUR-AOL-MON	Pura Advanced Online Hygrometer Monitor Only	
Feature {B}	ture {B} Range		
	(-120/-40)	-120 to -40°C (-184 to -40°F) dp range	
	(v/wx-yz)	Non-standard measurement range: v = zero value, w = full scale value, x = unit (C = °Cdp, F=°Fdp, P=ppmV) y = Pressure for ppmV conversion in bar/psi, z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig) e.g. 0-100ppm @ 10barg = 0/100P-10BG	
Feature {C}	Power		
	AC	85 to 265 V AC and 95 to 370V DC	
	DC	9 to 60 V DC and 18 to 36 V AC	
Feature {D}	Alarms		
	A2	Two alarm relays	
	A3	Three alarm relays	
	A4	Four alarm relays	
Feature {E}	Analog O/P		
	mA	4-20 mA output	
	V10	0-10 V output	
Feature {F}	Digital O/P		
	232	RS232 output	
	485	RS485 output	
Feature {G}	Cable		
	SC02	Standard sensor cable 2m (6.56') with fittings	
	SC05	Standard sensor cable 5m (16.4') with fittings	
	SC10	Standard sensor cable 10m (32.8') with fittings	
	Other cable lengths available upon request		

# Ordering Example

PUR-AOL+OEM+(-120/- 40)+AC+A2+mA+232+SC02	Pura AOL OEM Transmitter, single bagged, -120 to -40C dp range, AC power supply, 2 alarm relays, mA, RS232,
40)+AC+AZ+IIIA+23Z+3C0Z	2m sensor capie

# **PURA ACCESSORIES AND SPARE PARTS**

Order Codes	Product / Description
Spares	
GEN-LABEL	Additional/replacement transmitter labels (price per 2 off labels)
EA2-SCG	Sensor Connector MiniDIN Gasket
Sampling Accessories	
DP-MC	BS EN 10204 – type 3.1 Material Certificates (No transfers or distributor discounts)
* GEN-VCRW14GR	1/4" VCR Washer with Gasket Retainer
* GEN-14VCR6	1/4" VCR Female to 6mm Swagelok Tube
* GEN-14VCR14	1/4" VCR Female to 1/4" Swagelok Tube
* GEN-VCRW12	1/2" VCR Washer for sensor to sensor block connection
Electrical Accessories	
CT2-CAB-02	Cable, 2m (6.6') length with mini-DIN mating socket
CT2-CAB-05	Cable, 5m (16.4') length with mini-DIN mating socket
CT2-CAB-10	Cable, 10m (32.8') length with mini-DIN mating socket
	Other cable lengths available upon request



# **PURA ACCESSORIES AND SPARE PARTS**

Order Codes		Product / Description	
Product Ordering Code {Feature A}+{Feature B}			
Feature {A}	Base Model		
	EAU-CK	Easidew, SF82 & Pura Universal Comms Kit	
Feature {B}	Cable	ole	
	B1	EA2 MiniDIN Connector 0.5m sensor lead	
	B2	EA PRO IS & EA PRO XP Terminal Block Connector 0.5m sensor lead	
	В3	EA2 5 Way M12 Connector 0.5m sensor lead (not suitable for SF72 Rail M12 4 pin)	
EAU-CK	ACCESSOR	RIES AND SPARE PARTS	
EAU-CK-CAB1		Spare EA2 MiniDIN Connector 0.5m sensor lead	
EAU-CK-CAB2		Spare EA PRO IS & EA PRO XP Terminal Block Connector 0.5m sensor lead	
EAU-CK-CAB3		Spare EA2 5 Way M12 Connector 0.5m sensor lead (not suitable for SF72 Rail M12 4 pin)	

# **PURA CALIBRATION SERVICES - See details on previous page**

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Issue No: Pura Order Codes\_97256\_V8\_UK\_0221