**Easidew PRO XP/IS - Promet Trace Moisture in Gases Sampling System** 

roduct Parent Code: ES70G (North American certification) asidew PRO XP/IS - Promet Trace Moisture in Gases Sampling System			
Product Orde	Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}++{Feature M}		
Feature	Item	Description	
Feature {A}	Base Model		
	ES70G-I	Configurable sample system with 1/4" tube and twin ferrule compression fittings. Gas wetted parts in 316 SS. Gas max pressure 138 barg, flow rate 1-5nl/min. Indoor panel: 750 x 750 x 2mm, Outdoor: 800 x 800 x 300mm	
	ES70G-M	Configurable sample system with 6mm tube and twin ferrule compression fittings. Gas wetted parts in 316 SS. Gas max pressure 138 barg, flow rate 1-5nl/min. Indoor panel: 750 x 750 x 2mm, Outdoor: 800 x 800 x 300mm	
Feature {B}	Enclosure Type		
	B1	Open panel, 316 stainless steel, for indoor installation in temperature maintained environment	
	B2	Standard outdoor sampling system (304 SS enclosure)	
	В3	Standard outdoor sampling system (316 SS enclosure)	
	B4	Standard outdoor sampling system (304 SS enclosure with window)	
	B5	Standard outdoor sampling system (316 SS enclosure with window)	
Feature {C}	Transmitter M	ount	
	C1	Mounting for Easidew PRO XP	
	C2	Mounting for Easidew PRO IS	
	C4	Mounting for Promet IS without pressure transmitter	
	C6	Mounting for Promet IS with pressure transmitter	
Feature {D}	Filter		
	D1	Particulate: 5 µm SS Mesh	
	D2	Coalescing with manual drain (via system vent needle valve)	
	D3	Combined coalescing/oleophobic membrane with continuous drain flow (fast loop) - includes regulator & glass tube flow meter (metal case and protective plastic cover) with integral flow metering valve, 20 barg rated	
	D4	Combined coalescing/oleophobic membrane with continuous drain flow (fast loop) - includes regulator & armoured flow meter with integral flow metering valve, 138 barg rated (Cannot be ordered with Option I3)	
	D5	Combined coalescing/oleophobic membrane with continuous drain flow (fast loop) - includes two stage regulation & armoured flow meter with integral flow metering valve, 138 barg rated	
Feature {E}	Glycol Filter		
	E0	No glycol adsorption filter	
	E1	Glycol adsorption filter (Not for use with Option D1)	
Feature {F}	Upstream Gau		
	F0	No gauge	
	F1	63mm safety pattern - 0-100 barg / 0 - 1,500 psig	
	F2	63mm safety pattern - 0-160 barg / 0 - 2,321psig	
Feature {G}		sure Regulation	
	G0	No pressure regulator	
	G1	Single stage pressure regulator - Outlet 0 - 75 barg / 0 - 1089 psig	
	G2	Single stage pressure regulator - Outlet 0 - 8 barg / 0 - 116 psig	
	G3	Two stage pressure regulator - Outlet 0 - 8 barg / 0 - 116 psig	
Feature {H}		rement Pressure Gauge	
reactare (ii)	НО	No gauge	
	H1	63mm safety pattern - 0-10 barg / 0 - 150 psig	
	H2	63mm safety pattern - 0-100 barg / 0 - 1,500 psig	
	H3	63mm safety pattern - 0-160 barg / 0 - 2,321psig	
Feature {I}		ressure Regulation	
reature (1)	IO	No pressure regulator	
	I1	Single stage pressure regulator - Outlet 0 - 75 barg / 0 - 1089 psig	
	I2	Single stage pressure regulator - Outlet 0 - 8 barg / 0 - 116 psig	
	I3	Two stage pressure regulator - Outlet 0 - 8 barg / 0 - 116 psig	
Feature {J}	Flowmeter		
	J1	Glass tube flow meter (metal case and protective plastic cover) with integral flow metering valve, 20 barg rated	
	J2	Armoured flow meter with integral flow metering valve, 138 barg rated	
Feature {K}		ostat (Outdoor systems only)	
	K0	No heater	
	K5	100W, 120VAC, with fixed set point thermostat 20°C - NEC Cl1 Div2 Grp B,C,D	
	K6	100W, 120VAC, with fixed set point thermostat 40°C - NEC Cl1 Div2 Grp B,C,D (not for use with L7)	

Feature {L}	Enclosure cod	oling (Outdoor systems only)
	L0	No Enclosure Cooling
	L7	Enclosure cooling (mechanical control) for temperature 45°C max. ambient (instrument air supply required)
Feature {N}	Heat Trace Li	ne (Outdoor system only)
	N0	No heat trace option
	N1	240VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)
	N2	240VAC 3m trace heated sample line assembly (1/4" O.D. AISI 316)
	N3	110VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)
	N4	110VAC 3m trace heated sample line assembly (1/4" O.D. AISI 316)
		For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments
Feature (M)	Material Certification	
	M0	No material certification
	* M1	Material certificate to BS EN 10204 – type 3.1
	* M2	Material certificate to BS EN 10204 – type 3.1 + NACE MR0175 Conformity
* On certain l	labor intensive	services, no discount can be offered. These items are always offered at list price.

#### **Ordering Example**

ES70G-M
+B3+C1+D3+E1+F0+G1+H
+I0+J2+K0+L0+N0+M0

Base Unit - Metric (6mm) tube and fittings, standard outdoor sampling system (316 SS enclosure), mounting for Easidew PRO XP, Combined coalescing/oleophobic membrane with continuous drain flow (fast loop) - includes regulator & glass tube flow meter (metal case and protective plastic cover) with 1 integral flow metering valve (20 barg rated), glycol adsorption filter, no upsteam gauge, single stage pressure regulator - Outlet 0 - 75 barg/0 - 1089 psig, sensor pressure measurement gauge 63mm Safety Pattern - 0-10 barg/0 - 150 psig, no downstream pressure regulator, armoured flow meter with integral flow metering valve, 138 barg rated, no heater, no cooling, no heat trace, no material certificates

Order Codes	Product / Description
Spares & Accessories	
ES70-MF	Michell standard mounting frame
ES70-SSC	Michell standard mounting frame, 316SS box section construction. Floor standing with sun canopy, with roof and three sides all SS316
-	d documentation package comprises User Manuals (one printed per analyzer system) plus CD ROM containing Ex , Calibration Certificates and Pressure test certificates)
* SP-MC	Material Certificates for spare parts
* ES70-DOC	Documentation package (per individual system (to Michell Standard SDR list))
* ES70-DOC-E	Electronic Documentation Bookiet - EDB (per individual system (to Michell Standard SDR list). Each section of the EDB will be bookmarked and compiled as a PDE file
* ES70-DOC-ADH	Duplicate of DOC package (each hard copy)
* ES70-DOC-ADS	Duplicate of DOC package (each soft copy (CDROM))
* ES70-DOC-ADE	Duplicate of DOC-E package (on CDROM)
* ES70-DOC-CVDR	Documentation package for customer specific VDR
* ES70-DOC-CP	Document package on customer headed paper (per individual system (to Michell Standard SDR list))
* ES70-DOC-CP-ADH	Duplicate of DOC package on customer headed paper (each hard copy)
* ES70-DOC-CP-ADS	Duplicate of DOC package on customer headed paper (each soft copy (CDROM))
* ES70-DRG	Drawings for approval before build
Packaging	
* ES70-PAC1	Packing for Main Unit with Indoor Sampling System (crate for air & road)
* ES70-PAC2	Packing for Main Unit with Outdoor Sampling System (crate for air & road)
* ES70-PAC3	Packing for Mounting Frame and accessories only (crate for air & road)
* ES70-PAC4	Packing for Heat Trace line up to 15m length (crate for air & road)
* ES70-PAC5	Packing for Analyzer with Sun Canopy, with roof and 3 Sides (crate for air & road)
	For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments
Additional Services	
** ES70-FAT1	One day FAT pre-delivery inspection / or first day of inspection
** ES70-FAT2	Each consecutive day of FAT pre-delivery inspection
** GEN-FAT-ST8	8 hour unwitnessed stability test
** GEN-FAT-ST12	12 hour unwitnessed stability test
** GEN-FAT-ST24	24 hour unwitnessed stability test
Service Spares	
GEN-96181	Filter kit for Coalescer and Membrane Separator - each
GEN-96106	Particulate filter 5µm SS mesh replacement element
GEN-96114	Filter Glysorb; Element for 96131

\*\*These are the Michell charges for the FAT only. The cost of any third party inspector attending will be passed on, at cost, in addition to the Michell charges. Therefore, please ensure that the costs of any third party inspector(s) are added at the quotation stage.

**Easidew PRO XP/IS - Promet Trace Moisture in Gases Sampling System** 

	-	t Trace Moisture in Gases Sampling System
Product Orde	ring Code {Fea	ture A}+{Feature B}+{Feature C}+{Feature D}++{Feature M}
eature	Item	Description
eature (A)	Base Model	_ <del>_</del>
	ES70G-I	Configurable sample system with $1/4$ " tube and twin ferrule compression fittings. Gas wetted parts in 316 SS. Gas max pressure 138 barg, flow rate 1-5nl/min. Indoor panel: 750 x 750 x 2mm, Outdoor: 800 x 800 x 300mm
	ES70G-M	Configurable sample system with 6mm tube and twin ferrule compression fittings. Gas wetted parts in 316 SS. Gas max pressure 138 barg, flow rate 1-5nl/min. Indoor panel: 750 x 750 x 2mm, Outdoor: 800 x 800 x 300mm
eature {B}	Enclosure Type	<u> </u>
	B1	Open panel, 316 stainless steel, for indoor installation in temperature maintained environment
	B2	Standard outdoor sampling system (304 SS enclosure)
	B3	Standard outdoor sampling system (316 SS enclosure)
	B4	Standard outdoor sampling system (304 SS enclosure with window)
	B5	Standard outdoor sampling system (316 SS enclosure with window)
opture (C)	Transmitter M	
eature {C}		
	C1	Mounting for Easidew PRO XP
	C2	Mounting for Easidew PRO IS
	C3	Mounting for Easidew PRO IS with local display
	C4	Mounting for Promet IS without pressure transmitter
	C5	Mounting for Promet IS with pressure transmitter
eature {D}	Filter	
	D1	Particulate: 5 µm SS Mesh
	D2	Coalescing with manual drain (via system vent needle valve)
	D3	Combined coalescing/oleophobic membrane with continuous drain flow (fast loop) - includes regulator & glass tube flow meter (metal case and protective plastic cover) with integral flow metering valve, 20 barg rated
	D4	Combined coalescing/oleophobic membrane with continuous drain flow (fast loop) - includes regulator & armoured flow meter with integral flow metering valve, 138 barg rated (Cannot be ordered with Option I3)
	D5	Combined coalescing/oleophobic membrane with continuous drain flow (fast loop) - includes two stage regulation & armoured flow meter with integral flow metering valve, 138 barg rated
eature {E}	Glycol Filter	
cuture (L)	E0	No glycol adsorption filter
	E1	Glycol adsorption filter (Not for use with Option D1)
eature {F}	Upstream Gau	
	F0	No gauge
	F1	63mm safety pattern - 0-100 barg / 0 - 1,500 psig
	F2	63mm safety pattern - 0-160 barg / 0 - 2,321psig
eature {G}	<b>Upstream Pres</b>	ssure Regulation
	G0	No pressure regulator
	G1	Single stage pressure regulator - Outlet 0 - 75 barg / 0 - 1089 psig
	G2	Single stage pressure regulator - Outlet 0 - 8 barg / 0 - 116 psig
	G3	Two stage pressure regulator - Outlet 0 - 8 barg / 0 - 116 psig
eature {H}	Sensor Measu	rement Pressure Gauge
	H0	No gauge
	H1	63mm safety pattern - 0-10 barg / 0 - 150 psig
	H2	63mm safety pattern - 0-100 barg / 0 - 1,500 psig
	H3	63mm safety pattern - 0-160 barg / 0 - 2,321psig
eature {I}	Downstream F	Pressure Regulation
	10	No pressure regulator
	I1	Single stage pressure regulator - Outlet 0 - 75 barg / 0 - 1089 psig
	I2	Single stage pressure regulator - Outlet 0 - 8 barg / 0 - 116 psig
	I3	Two stage pressure regulator - Outlet 0 - 8 barg / 0 - 116 psig
eature {J}	Flowmeter	
<b>.</b>	J1	Glass tube flow meter (metal case and protective plastic cover) with integral flow metering valve, 20 barg rated
	J2	Armoured flow meter with integral flow metering valve, 138 barg rated
eature {K}		ostat (Outdoor systems only)
eature (K)		
	K0	No heater
	K1	100W, 230VAC, with fixed set point thermostat 20°C - ATEX/IECEx
	K2	100W, 230VAC, with fixed set point thermostat 40°C - ATEX/IECEx (not for use with L7)
	K3	100W, 110VAC, with fixed set point thermostat 20°C - ATEX/IECEx

Feature {L}	Enclosure cooling (Outdoor systems only)		
	LO	No Enclosure Cooling	
	L7	Enclosure cooling (mechanical control) for temperature 45°C max. ambient (instrument air supply required)	
Feature {N}	Heat Trace Li	ine (Outdoor system only)	
	N0	No heat trace option	
	N1	240VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)	
	N2	240VAC 3m trace heated sample line assembly (1/4" O.D. AISI 316)	
	N3	110VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)	
	N4	110VAC 3m trace heated sample line assembly (1/4" O.D. AISI 316)	
		For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments	
Feature (M)	Material Certification		
	M0	No material certification	
	* M1	Material certificate to BS EN 10204 – type 3.1	
	* M2	Material certificate to BS EN 10204 – type 3.1 + NACE MR0175 Conformity	
* On certain	labor intensive	e services, no discount can be offered. These items are always offered at list price.	

#### **Ordering Example**

ES70G-M +B3+C1+D3+E1+F0+G1+H1 +I0+J2+K0+L0+N0+M0	Base Unit - Metric (6mm) tube and fittings, standard outdoor sampling system (316 SS enclosure), mounting for Easidew PRO XP, Combined coalescing/oleophobic membrane with continuous drain flow (fast loop) - includes regulator & glass tube flow meter (metal case and protective plastic cover) with integral flow metering valve (20 barg rated), glycol adsorption filter, no upsteam gauge, single stage pressure regulator - Outlet 0 - 75 barg/0 - 1089 psig, sensor pressure measurement gauge 63mm Safety Pattern - 0-10 barg/0 - 150 psig, no downstream pressure regulator, armoured flow meter with integral
	flow metering valve, 138 barg rated, no heater, no cooling, no heat trace, no material certificates

Order Codes	Product / Description
Spares & Accessories	
ES70-MF	Michell standard mounting frame
ES70-SSC	Michell standard mounting frame, 316SS box section construction. Floor standing with sun canopy, with roof and three sides all SS316
•	rd documentation package comprises User Manuals (one printed per analyzer system) plus CD ROM containing Ex t, Calibration Certificates and Pressure test certificates)
* SP-MC	Material Certificates for spare parts
* ES70-DOC	Documentation package (per individual system (to Michell Standard SDR list))
* ES70-DOC-E	Electronic Documentation Booklet - EDB (per individual system (to Michell Standard SDR list). Each section of the EDB will be bookmarked and compiled as a PDF file
* ES70-DOC-ADH	Duplicate of DOC package (each hard copy)
* ES70-DOC-ADS	Duplicate of DOC package (each soft copy (CDROM))
* ES70-DOC-ADE	Duplicate of DOC-E package (on CDROM)
* ES70-DOC-CVDR	Documentation package for customer specific VDR
* ES70-DOC-CP	Document package on customer headed paper (per individual system (to Michell Standard SDR list))
* ES70-DOC-CP-ADH	Duplicate of DOC package on customer headed paper (each hard copy)
* ES70-DOC-CP-ADS	Duplicate of DOC package on customer headed paper (each soft copy (CDROM))
* ES70-DRG	Drawings for approval before build
Packaging	<u> </u>
* ES70-PAC1	Packing for Main Unit with Indoor Sampling System (crate for air & road)
* ES70-PAC2	Packing for Main Unit with Outdoor Sampling System (crate for air & road)
* ES70-PAC3	Packing for Mounting Frame and accessories only (crate for air & road)
* ES70-PAC4	Packing for Heat Trace line up to 15m length (crate for air & road)
* ES70-PAC5	Packing for Analyzer with Sun Canopy, with roof and 3 Sides (crate for air & road)
	For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments
Additional Services	
** ES70-FAT1	One day FAT pre-delivery inspection / or first day of inspection
** ES70-FAT2	Each consecutive day of FAT pre-delivery inspection
** GEN-FAT-ST8	8 hour unwitnessed stability test
** GEN-FAT-ST12	12 hour unwitnessed stability test
** GEN-FAT-ST24	24 hour unwitnessed stability test
Service Spares	
GEN-96181	Filter kit for Coalescer and Membrane Separator - each
GEN-96106	Particulate filter 5µm SS mesh replacement element
GEN-96114	Filter Glysorb; Element for 96131

\*\*These are the Michell charges for the FAT only. The cost of any third party inspector attending will be passed on, at cost, in addition to the Michell charges. Therefore, please ensure that the costs of any third party inspector(s) are added at the quotation stage.

**Easidew PRO XP/IS - Liquidew Trace Moisture in Liquids Sampling System** 

	roduct Parent Code: ES70L (North American certification) asidew PRO XP/IS - Liquidew Trace Moisture in Liquids Sampling System		
Product Orde	roduct Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}++{Feature M}		
Feature	Item	Description	
Feature {A}	Base Model	·	
	ES70L-I	Configurable sample system with 1/4" tube and twin ferrule compression fittings. Fluid wetted parts in 316 SS. Liquid max pressure 50 barg, flow rate 0.1 to 0.3 l/min recommended. Indoor panel: 750 x 750 x 2mm, Outdoor: 800 x 800 x 300mm	
	ES70L-M	Configurable sample system with 6mm tube and twin ferrule compression fittings. Fluid wetted parts in 316 SS. Liquid max pressure 50 barg, flow rate 0.1 to 0.3 l/min recommended. Indoor panel: 750 x 750 x 2mm, Outdoor: 800 x 800 x 300mm	
Feature {B}	Enclosure Type		
	B1	Open panel, 316 stainless steel, for indoor installation in temperature maintained environment	
	B2	Standard outdoor sampling system (304 SS enclosure)	
	В3	Standard outdoor sampling system (316 SS enclosure)	
	B4	Standard outdoor sampling system (304 SS enclosure with window)	
	B5	Standard outdoor sampling system (316 SS enclosure with window)	
Feature {C}	Transmitter Mo		
	C1	Mounting for Easidew PRO XP	
	C2	Mounting for Easidew PRO IS	
	C5	Mounting for Liquidew IS (NEC)	
Feature {D}	Filter		
	D0	No filter	
	D1	Particulate: 5 µm SS Mesh	
	D2	Two stage particulate: 75 & 5 µm SS Mesh	
Feature {E}	Flowmeter		
	E1	Glass tube flow meter (metal case and protective plastic cover) with integral flow metering valve, 20 barg rated	
	E2	Armoured flow meter with integral flow metering valve, 138 barg rated	
Feature {F}	Sample Cooling		
	F0	No cooling	
	F1	Sample cooling open panel - for process =>45°C (water supply required)	
	F2	Sample cooling outdoor enclosure - for process =>45°C (water supply required)	
Feature {G}		ostat (Outdoor systems only)	
	G0	No heater	
	G5	100W, 120VAC, with fixed set point thermostat 20°C - NEC Cl1 Div2 Grp B,C,D	
	G6	100W, 120VAC, with fixed set point thermostat 40°C - NEC Cl1 Div2 Grp B,C,D (not for use with L7)	
Feature {H}		ng (Outdoor systems only)	
	H0	No enclosure cooling	
	H7	Enclosure cooling (mechanical control) for temperature 45°C max. ambient (instrument air supply required)	
Feature {I}		perature Indication	
- c (_,	IO	No temperature indicator	
	I1	Temperature indicator	
Feature {J}	Heat Trace Line		
· catale (5)	J0	No heat trace option	
	J1	240VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)	
	J2	240VAC 3m trace heated sample line assembly (1/4" O.D. AISI 316)	
	J3	110VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)	
	J4	110VAC 3m trace heated sample line assembly (1/4" O.D. AISI 316)	
	J-7	For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments	
Feature {M}	Material Certifi	, , , , , , , , , , , , , , , , , , , ,	
i cature (M)		No material certification	
	M0 * M1		
		Material certificate to BS EN 10204 – type 3.1  Material certificate to BS EN 10204 – type 3.1 + NACE MP0175 Conformity	
	* M2	Material certificate to BS EN 10204 – type 3.1 + NACE MR0175 Conformity	

#### **Ordering Example**

Base Unit - Imperial (1/4") tube and fittings, standard outdoor sampling system (304 SS enclosure with window), mounting for Easidew PRO XP, two stage Particulate: 75 & 5 μm SS Mesh filter, armoured flow meter with integral flow metering valve (138 barg rated), no sample cooling, heater 100W, 120VAC, with fixed set point thermostat 20°C- NEC Cl1 Div2 Grp B,C,D; no enclosure cooling, enclosure temperature indication, no heat trace option, material certificate to BS EN 10204 – type 3.1

# **ES70 ACCESSORIES, SPARE PARTS, DOCUMENTATION & SERVICES**

Order Codes	Product / Description
Spares & Accessories	
ES70-MF	Michell standard mounting frame
ES70-SSC	Michell standard mounting frame, 316SS box section construction. Floor standing with sun canopy, with roof and three sides all SS316
•	d documentation package comprises User Manuals (one printed per analyzer system) plus CD ROM containing Ex , Calibration Certificates and Pressure test certificates)
* SP-MC	Material Certificates for spare parts
* ES70-DOC	Documentation package (per individual system (to Michell Standard SDR list))
* ES70-DOC-E	Electronic Documentation Booklet - EDB (per Individual System (to Michell Standard SDK list). Each section of the EDB will be bookmarked and compiled as a PDF file.
* ES70-DOC-ADH	Duplicate of DOC package (each hard copy)
* ES70-DOC-ADS	Duplicate of DOC package (each soft copy (CDROM))
* ES70-DOC-ADE	Duplicate of DOC-E package (on CDROM)
* ES70-DOC-CVDR	Documentation package for customer specific VDR
* ES70-DOC-CP	Document package on customer headed paper (per individual system (to Michell Standard SDR list))
* ES70-DOC-CP-ADH	Duplicate of DOC package on customer headed paper (each hard copy)
* ES70-DOC-CP-ADS	Duplicate of DOC package on customer headed paper (each soft copy (CDROM))
* ES70-DRG	Drawings for approval before build
Packaging	
* ES70-PAC1	Packing for Main Unit with Indoor Sampling System (crate for air & road)
* ES70-PAC2	Packing for Main Unit with Outdoor Sampling System (crate for air & road)
* ES70-PAC3	Packing for Mounting Frame and accessories only (crate for air & road)
* ES70-PAC4	Packing for Heat Trace line up to 15m length (crate for air & road)
* ES70-PAC5	Packing for Analyzer with Sun Canopy, with roof and 3 Sides (crate for air & road)
	For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments
Additional Services	
** ES70-FAT1	One day FAT pre-delivery inspection / or first day of inspection
** ES70-FAT2	Each consecutive day of FAT pre-delivery inspection
** GEN-FAT-ST8	8 hour unwitnessed stability test
** GEN-FAT-ST12	12 hour unwitnessed stability test
** GEN-FAT-ST24	24 hour unwitnessed stability test
Service Spares	
GEN-96106	Particulate filter 5µm SS mesh replacement element
GEN-96132	Particulate filter 50µm mesh replacement element
* On certain labor intens	sive services, no discount can be offered. These items are always offered at list price.

the Michell charges. Therefore, please ensure that the costs of any third party inspector(s) are added at the quotation stage.

Easidew PRO XP/IS - Liquidew IS Trace Moisture in Liquids Sampling System

		(ATEX/IECEx certification) ew IS Trace Moisture in Liquids Sampling System
Product Orde	ring Code {Feat	ture A}+{Feature B}+{Feature C}+{Feature D}++{Feature M}
Feature	Item	Description
Feature {A}	Base Model	<u>_</u>
	ES70L-I	Configurable sample system with 1/4" tube and twin ferrule compression fittings. Fluid wetted parts in 316 SS. Liquid max pressure 50 barg, flow rate 0.1 to 0.3 l/min recommended. Indoor panel: 750 x 750 x 2mm, Outdoor: 800 x 800 x 300mm
	ES70L-M	Configurable sample system with 6mm tube and twin ferrule compression fittings. Fluid wetted parts in 316 SS. Liquid max pressure 50 barg, flow rate 0.1 to 0.3 l/min recommended. Indoor panel: 750 x 750 x 2mm, Outdoor: 800 x 800 x 300mm
Feature {B}	Enclosure Type	
	B1	Open panel, 316 stainless steel, for indoor installation in temperature maintained environment
	B2	Standard outdoor sampling system (304 SS enclosure)
	В3	Standard outdoor sampling system (316 SS enclosure)
	B4	Standard outdoor sampling system (304 SS enclosure with window)
	B5	Standard outdoor sampling system (316 SS enclosure with window)
Feature {C}	Transmitter Mo	ount
	C1	Mounting for Easidew PRO XP
	C2	Mounting for Easidew PRO IS
	C4	Mounting for Liquidew IS (ATEX)
Feature {D}	Filter	
	D0	No filter
	D1	Particulate: 5 µm SS Mesh
	D2	Two stage particulate: 75 & 5 µm SS Mesh
Feature {E}	Flowmeter	
	E1	Glass tube flow meter (metal case and protective plastic cover) with integral flow metering valve, 20 barg rated
	E2	Armoured flow meter with integral flow metering valve, 138 barg rated
Feature {F}	Sample Cooling	9
	F0	No cooling
	F1	Sample cooling open panel - for process =>45°C (water supply required)
	F2	Sample cooling outdoor enclosure - for process =>45°C (water supply required)
Feature {G}	Heater/Therm	ostat (Outdoor systems only)
	G0	No heater
	G1	100W, 230VAC, with fixed set point thermostat 20°C - ATEX/IECEx
	G2	100W, 230VAC, with fixed set point thermostat 40°C - ATEX/IECEx (not for use with H7)
	G3	100W, 110VAC, with fixed set point thermostat 20°C - ATEX/IECEx
	G4	100W, 110VAC, with fixed set point thermostat 40°C - ATEX/IECEx (not for use with H7)
Feature {H}	Enclosure cool	ing (Outdoor systems only)
	H0	No enclosure cooling
	H7	Enclosure cooling (mechanical control) for temperature 45°C max. ambient (instrument air supply required)
Feature {I}		perature Indication
	10	No temperature indicator
	I1	Temperature indicator
Feature {J}	Heat Trace Lin	
	Ј0	No heat trace option
	J1	240VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)
	J2	240VAC 3m trace heated sample line assembly (1/4" O.D. AISI 316)
	J3	110VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)
	J4	110VAC 3m trace heated sample line assembly (1/4" O.D. AISI 316)
		For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments
Feature (M)	Material Certif	
	М0	No material certification
	* M1	Material certificate to BS EN 10204 – type 3.1
	* M2	Material certificate to BS EN 10204 – type 3.1 + NACE MR0175 Conformity
* On certain I	abor intensive	services, no discount can be offered. These items are always offered at list price.

#### **Ordering Example**

ES70L-I+B4+C1+D2+E2 +F0+G1+H0+I1+J0+M1 Base Unit - Imperial (1/4") tube and fittings, standard outdoor sampling system (304 SS enclosure with window), mounting for Easidew PRO XP, two stage Particulate: 75 & 5 µm SS Mesh filter, armoured flow meter with integral flow metering valve (138 barg rated), no sample cooling, heater 100W, 120VAC, with fixed set point thermostat 20°C- NEC Cl1 Div2 Grp B,C,D; no enclosure cooling, enclosure temperature indication, no heat trace option, material certificate to BS EN 10204 – type 3.1

# **ES70 ACCESSORIES, SPARE PARTS, DOCUMENTATION & SERVICES**

Order Codes	Product / Description
Spares & Accessories	
ES70-MF	Michell standard mounting frame
ES70-SSC	Michell standard mounting frame, 316SS box section construction. Floor standing with sun canopy, with roof and three sides all SS316
-	ard documentation package comprises User Manuals (one printed per analyzer system) plus CD ROM containing Exet, Calibration Certificates and Pressure test certificates)
* SP-MC	Material Certificates for spare parts
* ES70-DOC	Documentation package (per individual system (to Michell Standard SDR list))
* ES70-DOC-E	Electronic Documentation Booklet - EDB (per individual system (to Michell Standard SDR list). Each section of the EDB will be bookmarked and compiled as a PDF file.
* ES70-DOC-ADH	Duplicate of DOC package (each hard copy)
* ES70-DOC-ADS	Duplicate of DOC package (each soft copy (CDROM))
* ES70-DOC-ADE	Duplicate of DOC-E package (on CDROM)
* ES70-DOC-CVDR	Documentation package for customer specific VDR
* ES70-DOC-CP	Document package on customer headed paper (per individual system (to Michell Standard SDR list))
* ES70-DOC-CP-ADH	Duplicate of DOC package on customer headed paper (each hard copy)
* ES70-DOC-CP-ADS	Duplicate of DOC package on customer headed paper (each soft copy (CDROM))
* ES70-DRG	Drawings for approval before build
Packaging	
* ES70-PAC1	Packing for Main Unit with Indoor Sampling System (crate for air & road)
* ES70-PAC2	Packing for Main Unit with Outdoor Sampling System (crate for air & road)
* ES70-PAC3	Packing for Mounting Frame and accessories only (crate for air & road)
* ES70-PAC4	Packing for Heat Trace line up to 15m length (crate for air & road)
* ES70-PAC5	Packing for Analyzer with Sun Canopy, with roof and 3 Sides (crate for air & road)
	For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments
Additional Services	
** ES70-FAT1	One day FAT pre-delivery inspection / or first day of inspection
** ES70-FAT2	Each consecutive day of FAT pre-delivery inspection
** GEN-FAT-ST8	8 hour unwitnessed stability test
** GEN-FAT-ST12	12 hour unwitnessed stability test
** GEN-FAT-ST24	24 hour unwitnessed stability test
Service Spares	
GEN-96106	Particulate filter 5µm SS mesh replacement element
GEN-96132	Particulate filter 50µm mesh replacement element
* On certain labor inten	sive services, no discount can be offered. These items are always offered at list price.
**These are the Michell charges for the FAT only. The cost of any third party inspector attending will be passed on, at cost, in addition to the Michell charges. Therefore, please ensure that the costs of any third party inspector(s) are added at the quotation stage.	

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Issue No: ES70 Sampling System\_97550\_V5\_UK\_0623