

ES70 SAMPLING SYSTEM

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

Product Parent Code: ES70G (North American certification) Easidew PRO XP/IS - Promet Trace Moisture in Gases Sampling System		
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+...+{Feature M}		
Feature	Item	Description
Feature {A}	Base Model	
	ES70G-I	Base Unit - Imperial (1/4") tube and fittings
	ES70G-M	Base Unit - Metric (6mm) tube and fittings
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)
	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)
Feature {C}	Transmitter Mount	
	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 Gauge	
	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}	Upstream Pressure 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}	Sensor Measurement 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
Feature {I}	Downstream Pressure Regulation	
	I0	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}	Heater/Thermostat (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 cooling (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 Line (Outdoor systems 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

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 upstream 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
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ES70 ACCESSORIES AND SPARE PARTS

NOTE: Standard delivery (if no documentation is ordered) will include user manual (hard copy), drawings and certificate (on CD).	
Order Codes	Product / Description
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
Packing options	
* ES70-PAC1	Packing for Main Unit with Indoor Sampling System (crate for air, sea & road)
* ES70-PAC2	Packing for Main Unit with Outdoor Sampling System (crate for air, sea & road)
* ES70-PAC3	Packing for Mounting Frame and accessories only (crate for air, sea & road)
* ES70-PAC4	Packing for Heat Trace line up to 15m length (crate for air, sea & road)
* ES70-PAC5	Packing for Analyzer with Sun Canopy, with roof and 3 Sides (crate for air, sea & road)
For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments	
Documentation	
Standard documentation package comprises User Manuals (one printed per analyzer system) plus CD ROM containing Ex certificates, Drawing Set, Calibration Certificates and Pressure test certificates.	
** 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	FAT 8 hour stability test
** GEN-FAT-ST12	FAT 12 hour stability test
** GEN-FAT-ST24	FAT 24 hour stability test
* SP-MC	Material Certificates for spare parts
* ES70-DOC	Documentation package (per individual system (to Michell Standard SDR list))
* ES70-DOC-E	Electronic documentation package (per individual system (to Michell Standard SDR list))
* 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
Service Spares	
GEN-96181	Membrane/Coalescing filter spares kit including O rings
GEN-96106	Particulate filter 5µm SS mesh replacement element
GEN-96028	Replacement Coalescing Filter cartridge, long (pack of 10)
GEN-96114	Replacement Filter cartridge, Ultra Glysob (pack of 10)

ES70 SAMPLING SYSTEM

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

Product Parent Code: ES70G (ATEX/IECEx certification)		
Easidew PRO XP/IS - Promet Trace Moisture in Gases Sampling System		
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+...+{Feature M}		
Feature	Item	Description
Feature {A}	Base Model	
	ES70G-I	Base Unit - Imperial (1/4") tube and fittings
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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)
	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)
Feature {C}	Transmitter Mount	
	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
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 Gauge	
	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}	Upstream Pressure Regulation	
	G0	No pressure regulator
	G1	Single stage pressure regulator - Outlet 0 - 75 barg / 0 - 1089 psig
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	G3	Two stage pressure regulator - Outlet 0 - 8 barg / 0 - 116 psig
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	H0	No gauge
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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}	Heater/Thermostat (Outdoor systems only)	
	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
	K4	100W, 110VAC, with fixed set point thermostat 40°C - ATEX/IECEx (not for use with L7)

Feature {L}	Enclosure cooling (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 Line (Outdoor systems 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

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 upstream 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
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ES70 ACCESSORIES AND SPARE PARTS

NOTE: Standard delivery (if no documentation is ordered) will include user manual (hard copy), drawings and certificate (on CD).	
Order Codes	Product / Description
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
Packing options	
* ES70-PAC1	Packing for Main Unit with Indoor Sampling System (crate for air, sea & road)
* ES70-PAC2	Packing for Main Unit with Outdoor Sampling System (crate for air, sea & road)
* ES70-PAC3	Packing for Mounting Frame and accessories only (crate for air, sea & road)
* ES70-PAC4	Packing for Heat Trace line up to 15m length (crate for air, sea & road)
* ES70-PAC5	Packing for Analyzer with Sun Canopy, with roof and 3 Sides (crate for air, sea & road)
For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments	
Documentation	
Standard documentation package comprises User Manuals (one printed per analyzer system) plus CD ROM containing Ex certificates, Drawing Set, Calibration Certificates and Pressure test certificates.	
** 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	FAT 8 hour stability test
** GEN-FAT-ST12	FAT 12 hour stability test
** GEN-FAT-ST24	FAT 24 hour stability test
* SP-MC	Material Certificates for spare parts
* ES70-DOC	Documentation package (per individual system (to Michell Standard SDR list))
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* ES70-DRG	Drawings for approval before build
Service Spares	
GEN-96181	Membrane/Coalescing filter spares kit including O rings
GEN-96106	Particulate filter 5µm SS mesh replacement element
GEN-96028	Replacement Coalescing Filter cartridge, long (pack of 10)
GEN-96114	Replacement Filter cartridge, Ultra Glysoorb (pack of 10)

ES70 SAMPLING SYSTEM

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

Product Parent Code: ES70L (North American certification) Easidew PRO XP/IS - Liquidew Trace Moisture in Liquids Sampling System		
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+...+{Feature M}		
Feature	Item	Description
Feature {A}	Type	
	ES70L-I	Base Unit - Imperial (1/4") tube and fittings
	ES70L-M	Base Unit - Metric (6mm) tube and fittings
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)
	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)
Feature {C}	Transmitter Mount	
	C1	Mounting for Easidew PRO XP
	C2	Mounting for Easidew PRO IS
	C4	Mounting for Liquidew IS
Feature {D}	Filter	
	D0	No filter
	D1	Particulate: 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.
Feature {G}	Heater/Thermostat (Outdoor systems only)	
	G0	No heater
	G5	100W, 120VAC, with fixed set point thermostat 20°C - NEC C1 Div2 Grp B,C,D
Feature {H}	Enclosure cooling (Outdoor systems only)	
	H0	No enclosure cooling
	H7	Enclosure cooling (mechanical control) for temperature 45°C max. ambient (instrument air supply required)
Feature {I}	Enclosure Temperature Indication	
	I0	No temperature indicator
	I1	Temperature indicator
Feature {J}	Heat Trace Line	
	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)
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

Ordering Example

ES70L-I+B4+C1+D2+E2+F0+G5+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 C1 Div2 Grp B,C,D; no enclosure cooling, enclosure temperature indication, no heat trace option, material certificate to BS EN 10204 – type 3.1
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ES70 ACCESSORIES AND SPARE PARTS

Order Codes		Product / Description
<i>NOTE: Standard delivery (if no documentation is ordered) will include user manual (hard copy), drawings and certificate (on CD).</i>		
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
Packing options		
* ES70-PAC1		Packing for Main Unit with Indoor Sampling System (crate for air, sea & road)
* ES70-PAC2		Packing for Main Unit with Outdoor Sampling System (crate for air, sea & road)
* ES70-PAC3		Packing for Mounting Frame and accessories only (crate for air, sea & road)
* ES70-PAC4		Packing for Heat Trace line up to 15m length (crate for air, sea & road)
* ES70-PAC5		Packing for Analyzer with Sun Canopy, with roof and 3 Sides (crate for air, sea & road)
For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments		
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* 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))
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* ES70-DOC-CP-ADS		Duplicate of DOC package on customer headed paper (each soft copy (CDROM))
* ES70-DRG		Drawings for approval before build
Service Spares		
GEN-96106		Particulate filter 5µm SS mesh replacement element
GEN-96132		Particulate filter 75µm mesh replacement element

ES70 SAMPLING SYSTEM

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

Product Parent Code: ES70 (ATEX/IECEX certification) Easidew PRO XP/IS - Liquidew IS Trace Moisture in Liquids Sampling System		
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	D2	Two stage particulate: 75 & 5 µm SS Mesh
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	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}	Heater/Thermostat (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 cooling (Outdoor systems only)	
	H0	No enclosure cooling
	H7	Enclosure cooling (mechanical control) for temperature 45°C max. ambient (instrument air supply required)
Feature {I}	Enclosure Temperature Indication	
	I0	No temperature indicator
	I1	Temperature indicator
Feature {J}	Heat Trace Line	
	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)
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* ES70-PAC3	Packing for Mounting Frame and accessories only (crate for air, sea & road)
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* ES70-DRG	Drawings for approval before build
Service Spares	
GEN-96106	Particulate filter 5µm SS mesh replacement element
GEN-96132	Particulate filter 75µm mesh replacement element

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_V3_UK_1119