



RAINMAN SPECIFICATIONS - WA LOCAL COUNCILS

Rainman controllers have many variations to suit the requirement of the client, the following pages outline the standard system requirements which cover over 90% of WA Based client systems.

Rainman Controllers:	<p>Firmware: Utilises both Sequential (RS) and Grouping (HG) firmware. Confirmation from client is required</p> <p>Stations: Specify 1,2,3 or TWIN based on site requirements, these configuration variants cover over 90% of systems.</p> <p>Enclosure: Most councils standardise on the Classic enclosures (.B) Panel Mount (.A), PolyCarb (.C) and 500x500 Stainless Steel (.D) are used in project specific scenarios.</p>
Rainman Communications	As of November 2021, Cellular communication is a standard across all WA local councils (COM.C.4G.NS.WA)
Two-Wire Translators	Use TW.TRN.TBOX when adding two wire to an existing Rainman multi-wire controller or add an additional two-wire path to a Twin controller
Power Supplies	<p>PSU.24VAC.100VA for all Multi-Wire controllers</p> <p>PSU.28VAC.12DC for all Two-Wire Systems</p>
Lightning Protection	<p>Use ISP.TDS150 for mains surge protection for all systems</p> <p>Use 1 x LSP.UTB60SP for every 2 mult-wire stations, plus add 1 additional unit for common wires ie. 10 stations require 6 units.</p> <p>Use 1 x LSP.UTB60SP for each sensor input. Ie. A system with 1 x flow meter and 1 x pressure transducer will require 2 units.</p> <p>Use 1 x TW.GND.KIT if installing Two-Wire system</p>
Two-Wire Cable	<p>Use CAB.TW.TRAX.2.G.300 for two-wire runs less than 1km</p> <p>Use CAB.TW.TRAX.4.V.300 for two-wire runs more than 1km</p>
Two Wire Decoders	<p>TW.D.SO decoders are most common, other varieties can be used if required.</p> <p>Add 1 x TW.LTU.KIT at the end of each major cable run, not required for small T's where cable run is less than 100m</p>
reCOIL Solenoids	Recommended when using Rainman Decoders due to the low current draw of the reCOIL. System is compatible with all 24VAC irrigation solenoids.
Adaptors for DIAS & recoil	Adaptors are provided with reCOIL kits but can be purchased separately if required
Emflux Flowmeters	<p>Use M500-LXXX as transmitter, unit comes with a pulse output</p> <p>Order EMF DUAL CABLE+PE to suit distance between transmitter and flow tube</p> <p>Select Emflux IR or GM flow based on headworks diameter.</p> <p>IR Tubes come standard as Table D, GM Tubes come standard as AS4087</p>
Sensors	All systems should have a PT10.10 pressure transducer
Compliance	Most WA municipal clients require a compliance check for a new installation QA.Cert.RainMan.Field is a site visit by a Rainman Technican to review site installation and supply a certificate of compliance.



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Example 1: Rainman Twin Controller for City of Rockingham with 32 decoders, 100mm flowmeter (15m from cabinet) and 1.5km of 2 wire cable (controller in the middle of the path)

CATEGORY	PART NUMBER	QTY
Rainman Controllers:	RS.TWIN.B	1
Rainman Communications	COM.C.4G.NS.WA	1
Two-Wire Translators	None (Already included)	0
Power Supplies	PSU.28VAC.12DC	1
Lightning Protection	ISP.TDS150	1
	LSP.UTB60SP	2
	TW.GND.KIT	1
Two-Wire Cable	CAB.TW.TRAX.4.V.300	5
Two Wire Decoders	TW.D.SO	32
	TW.LTU.KIT	2
reCOIL Solenoids	RC24	32
Adaptors for DIAS & recoil	None (included with reCOIL)	0
Emflux Flowmeters	M500-LXXX	1
	EMF DUAL CABLE+PE	20
	IR2020-100ADADSS	1
Sensors	PT10.10	1
Compliance	QA Cert.RainMan.Field	1

**Use supplied price book for pricing*

Example 2: Rainman Multi-Wire Controller for City of Melville with 24 stations, 80mm flowmeter (15m from cabinet)

CATEGORY	PART NUMBER	QTY
Rainman Controllers:	RS.3.B	1
Rainman Communications	COM.C.4G.NS.WA	1
Two-Wire Translators	None (Not Required)	0
Power Supplies	PSU.24VAC.100VA	1
Lightning Protection	ISP.TDS150	1
	LSP.UTB60SP	15
Two-Wire Cable	None (Not Required)	0
Two Wire Decoders	None (Not Required)	0
reCOIL Solenoids	RC24	24
Adaptors for DIAS & recoil	None (included with reCOIL)	0
Emflux Flowmeters	M500-LXXX	1
	EMF DUAL CABLE+PE	20
	IR2020-080ADADSS	1
Sensors	PT10.10	1
Compliance	QA Cert.RainMan.Field	1

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Example 3: Rainman Two-Wire Grouping Controller in a 500x500 Stainless steel enclosure for City of Perth with two separate two-wire paths, 3km Cable, 48 stations, 150mm flowmeter (15m from cabinet)

CATEGORY	PART NUMBER	QTY
Rainman Controllers:	HG.TWIN.D	1
Rainman Communications	COM.C.4G.NS.WA	1
Two-Wire Translators	TW.TRN.TBOX	1
Power Supplies	PSU.24VAC.100VA	2
Lightning Protection	ISP.TDS150	1
	LSP.UTB60SP	2
	TW.GND.KIT	1
Two-Wire Cable	CAB.TW.TRAX.4.V.300	10
Two Wire Decoders	TW.D.SO	48
	TW.LTU.KIT	2
reCOIL Solenoids	RC24	48
Adaptors for DIAS & recoil	None (included with reCOIL)	0
Emflux Flowmeters	M500-LXXX	1
	EMF DUAL CABLE+PE	20
	IR2020-150ADADSS	1
Sensors	PT10.10	1
Compliance	QA Cert.RainMan.Field	1

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