Jackal Multifunction Monitor & Controller

**NOW WITH
RATE & 3 SECTION CONTROL**

- *speed & area meter*
- *flow meter*
- *batch meter*
- *RPM monitor*
- *surveillance*
- *plus more . . .*

The Jackal is a compact, robust multifunctional monitor & basic spray controller that adapts onto any machine. Performing simultaneous tasks, recording trips and alarm outputs the Jackal is a truly outstanding device that every farming operation should have.

Here are just a few of the many functions possible :

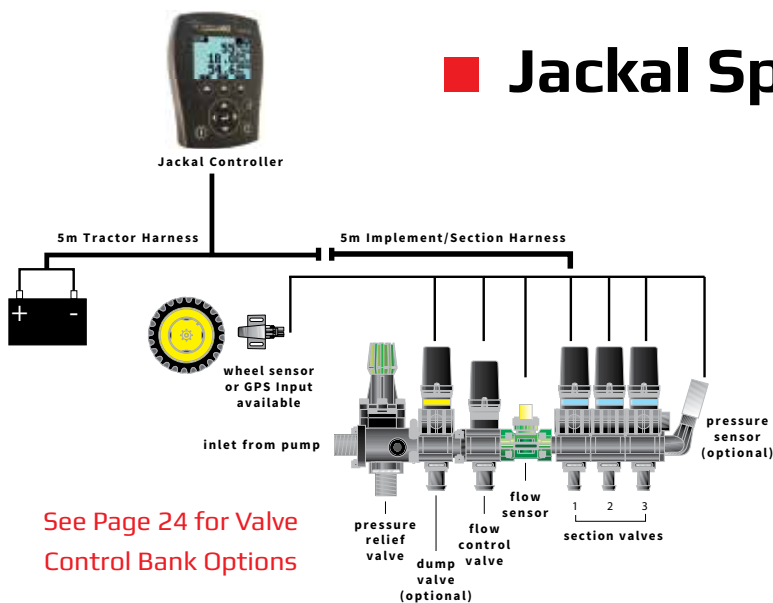|		
Area/Speed Meter	Tacho/RPM Meter	Flow Meter
Batch Meter	Flow Controller	Rate Monitor
Level Meter	Counter	Pressure Monitor
Depth Meter	Wheel slippage	Temp Monitor

- The Jackal is capable of monitoring and controlling 6 functions simultaneously.
- With appropriate sensors attached the Jackal can display simple speed, area & RPM to providing a full 3 section rate control for liquid applications. A single Jackal can do it all!
- A total of 12 ports available which are split between monitoring and control functions.
- Sensors are simply terminated into the rear of the unit or a handy 5m + 5m Jackal harness can also be provided.
- There are multiple trip counters as well as an overall total allowing the operator to track numerous jobs in a period of work.
- The Jackal can be put 'on hold' by the operator or by a suitable signal switch from the machinery implement.

3 Unlock Levels - Basic - Monitoring - Control

GREAT FEATURES INCLUDE

- Easy wizards for fast setup of Area & speed Meter, Area & speed meter with GPS, Tacho Meter, Flowmeter, Slippage Meter, Spray Controller & Generic Wizard

- 1UP, 2UP or 3UP line display - Your choice of up to 3 lines per screen (page)

- LIVE data as you scroll through each page

- Ability to short name each port. i.e. label Shaft 1 as SF1

- Set high & low alarm points for each input

- Enhanced Trip function for single & cumulative

- The ability for each input used to display information using imperial and metric units.

- Your choice of number of decimal places

- Arrange front page to your liking…. You select what you want to show on each line

- Auto calculate or manually set calibration factors

- External run/hold or alarm function

- Quickly enable/disable ports without losing settings for next time usage

- Radar function output

- 3 Section Rate controller with the ability to automatically & manually control a flow control valve , 3 sections plus dump valve.

■ Jackal Spray Controller

Jackal Controller

5m Tractor Harness   **5m Implement/Section Harness**

wheel sensor
or GPS Input
available

inlet from pump

pressure
sensor
(optional)

flow
sensor

pressure
relief
valve

dump
valve
(optional)

flow
control
valve

section valves
1   2   3

See Page 24 for Valve Control Bank Options

The Jackal 3 section spray controller offers great flexibility and simple to operate. Suitable for all sprayers, the Jackal Spray Controller integrates with your existing motorised or solenoid valves to provide fully automatic spray control.

The target rate is maintained automatically, so even when shutting down sections or when there is variation in speed or pressure, over/under application is virtually eliminated.

The Jackal displays application rate, speed, area tank level and more. Operators can increase or decrease rates on-the-go through preset steps.

Manual rate control is also available when flow or speed is not present. - Simply refer to your pressure gauge - adjust the flow control valve and get spraying!

Need help? - Call to discuss your options

Pre Packaged Kits (Jackal & Sensor Kit)

Order Code		
Jackal-Basic-Area ^	Jackal - Basic Area/Speed Meter Kit	(Limited - 2 Functions Unlocked)
Jackal-Monitor-Area ^	Jackal - Monitor Area/Speed Meter Kit	(All Monitor Functions Unlocked - No Control)
Jackal-Control-Area ^	Jackal - Control Area/Speed Meter Kit	(All Monitor & Control Functions Unlocked)
Jackal-Basic-Tach *	Jackal - Basic Tachometer Kit (100-9999RPM)	(Limited - 2 Functions Unlocked)
Jackal-Monitor-Tach *	Jackal - Monitor Tachometer Kit (100-9999RPM)	(All Monitor Functions Unlocked - No Control)
Jackal-Control-Tach *	Jackal - Control Tachometer Kit (100-9999RPM)	(All Monitor & Control Functions Unlocked)
Jackal-Basic-Tach-S #	Jackal - Basic Tachometer Kit (1-1500RPM)	(Limited - 2 Functions Unlocked)
Jackal-Monitor-Tach-S #	Jackal - Monitor Tachometer Kit (1-1500RPM)	(All Monitor Functions Unlocked - No Control)
Jackal-Control-Tach-S #	Jackal - Control Tachometer Kit (1-1500RPM)	(All Monitor & Control Functions Unlocked)
	A-JACKAL	Jackal Monitor
	AA-110C ^ / #	Compact Reed Sensor (Black) - Area Meter Kit
	AA-133 ^	Mini Wheel Magnet & Nut - Area Meter Kit
	AA-112C *	Compact Coil Sensor (Yellow)
	AA-117 * / #	Shaft Magnet - Hose Clamp Style
	AH-407	Suction Mount Bracket
	AC-105	Jackal Power Cable
	AC-205	Sensor Extension cable 5m
Jackal-Control-Spray	Jackal Spray Controller Kit - 3 Section	Kit Includes 5m + 5m Tractor & Implement harness
	- Excludes Valve Control Bank / Dump Valve / Speed Input	AC-4501/T - Tractor Harness 5m	AC-4501/S - Implement Harness 5m

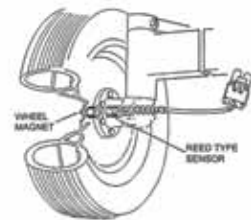*See over the page for more add-ons or build you own kit*

Build your own & Add-on Kits

Order Code		EXCLUDES SENSORS
Jackal-Basic	Jackal Basic Kit ONLY (Limited - 2 Functions Unlocked)	
Jackal-Monitor	Jackal Monitor Kit ONLY (All Monitor Functions Unlocked - No Control)	
Jackal-Control	Jackal Control Kit ONLY (All Monitor & Control Functions Unlocked)	
	A-Jackal	Jackal Monitor (Unlocked to level purchased)
	AH-407	Suction Mount Bracket
	AC-105	Jackal Power Cable
	P-321/P-322	Jackal Input Plug (Grey & Green)
	HM-506	2.4mm Blade Screw Driver

GPS READY

Order Code		
1007P	Wheel Sensor Kit	
	AC-205	2 Way 5m Packard Extn Cable
	AA-133	Wheel magnet & nut
	AA-110C	Compact Reed Type Sensor
	Suits Jackal, 1100, 1550, 2000, 2300, 2400, 24V1	

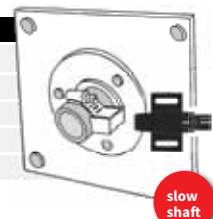| Order Code		
2009	Tailshaft Sensor Kit	
	AC-205	2 Way 5m Packard Extn Cable
	AA-133	Tailshaft Magnet (AA-106) & Clamp (AH-423)
	AA-110C	Compact Reed Type Sensor
	Suits Jackal, 1100, 1550, 2000, 2300, 2400, 24V1	

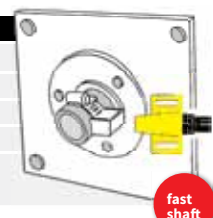| Order Code		
2034	Pulley Sensor Kit (100-9999RPM)	
	Only one fast input available on the Jackal	

Order Code		
2060	Bin/Tank level Sensor Kit	
	Detects full or empty, solids or liquids (2200, 3X00 or Jackal ONLY)	
	A-2220P	Bin level sensor
	AH-400	Packard cable bracket
	AC-305	3 Way 5m connection cable

Order Code		
2076	Shaft Sensor Kit (1-1500RPM)	
	AC-205	2 Way 5m Connection Cable
	AH-117	Shaft Magnet & Clamp
	AA-110C	Compact Reed Type Sensor
	Suits Jackal & 2200 Surveillance	

slow shaft

Order Code		
2077	Shaft Sensor Kit (100-9999RPM)	
	AC-205	2 Way 5m Connection Cable
	AH-117	Shaft Magnet & Clamp
	AA-112C	Compact coil sensor
	Suits Jackal & 2200 Surveillance	
	Only one fast input available on the Jackal v1	

fast shaft

Order Code	
AA-119-L	Pressure Sensor Kit **(0-20KPA) - LOW PRESSURE**
AA-119-H	Pressure Sensor Kit **(0-1000KPA) - HIGH PRESSURE**
	Suits Jackal, 7000 Series

	HM-406	1.5m 6mm Tubing
	HM-408	6mm Connector
	AH-427	Hose Clamp

Order Code	
1501	Solenoid Shutdown Kit
	AH-488	Solenoid Kit (2")
	AC-205	5m Solenoid Power Cable

When filling the tank, the operator can watch the display and shutdown the water manually or preset a required batch volume and use the optional solenoid shutdown kit to automatically stop the flow.

Flow meters - Control Valve Bank options
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Order Code	
2202	Jackal Junction Box **(Maximum of 13 Inputs) - Requires 12v**
	Provides 5m extension cable to weatherproof connection point for sensor/batch/remote options
AC-LTW24V1T-01-M/F	5m Male/Female Extension cable
	Provides extra 5m male/female extension

Order Code	
T-135	Free to Air 5hz GPS (Approx 2.5m Accuracy)
	Can be used in place of wheel sensor when used with a Jackal V2/V3 and 7000 Series

SPEED INPUT

Order Code	
2010P	Proximity Sensor Kit (3 Wire)
	AC-305	3 Way 5m Packard Extn Cable
	AH-400	Packard cable bracket
	AA-2010P	Proximity switch

Windows Desktop simulator also available for the Jackal

Optional Simulator

Order Code	
1001	Sensor Simulator
	Connects in place of Flow/Wheel or Shaft sensor, generates variable pulse rate for stationary testing.