



---

**RAAD BOX™**

Smart Sensor Network

---



## Embeds Intelligence Into Weighing Applications

**METTLER TOLEDO**



# Convert conventional strain gauge load cell systems into a smart sensor network.

With the RAAD Box™ conventional strain gauge load cell systems can be transformed into advanced sensor networks. Instead of analyzing the combined signal from every load cell in the system, the RAAD Box embeds intelligence into each individual load cell, enabling you to analyze your system at the lowest level. Failures can be detected immediately, guarding you against costly downtime or product waste. Unique weighing applications can be addressed, providing cost effective solutions to today's real world challenges.

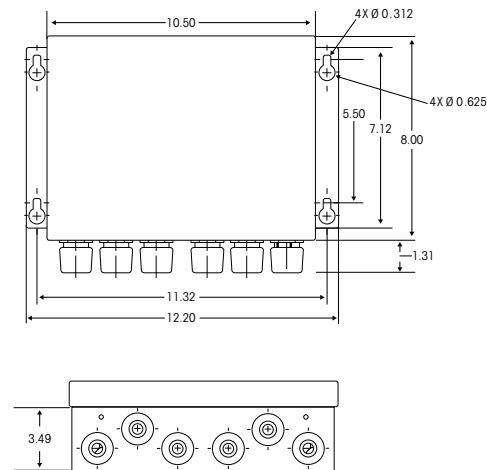
The RAAD Box accepts conventional 2 mV/V or 3mV/V analog strain gauge load cells and is compatible with METTLER TOLEDO'S JAGUAR®, JAGXTREME™ and COUGAR® terminals.

### Specifications

Physical Dimensions (W x D x H)	30.98 cm x 22.0 cm x 8.87 cm (12.20" x 8.66" x 3.49")
Operating Temperature	-10°C to 40°C (14°F to 113°F)
Power	Supplied from hosting terminal's data connection
Environmental Protection	NEMA 4X enclosure

Features	Benefits
Analog to Digital Conversion	Stronger signal free from RFI influence
Predictive Maintenance Diagnostics	Prevents wasted product, reduces downtime
4 MTX POWERCELL Cards	Allows connection to 4 analog load cells
Daisy Chain Multiple RAAD Boxes	Connect up to 6 RAAD Boxes
Connect up to 24 Analog Load Cells	Great for vehicle scale conversions
Update Rate	18Hz
Resolution	Full scale resolution of A/D 500,000 counts per cell
Load Cell Compatibility	2mV/V or 3mV/V analog load cells
Compensating "Run Flat" Technology	Continue production runs until defective load cell can be replaced
Monitor Individual Load Cell Channels	Great for diagnostics as well as special applications such as C of G determination.
Connections	Terminal strips for field wiring
Hazardous Area Approval (Pending)	Factory Mutual and KEMA approved when used with METTLER TOLEDO intrinsically safe instruments.
NTEP Certified, OIML Pending	Legal - for - trade applications

- **Reduces Costs** – The RAAD Box reduces the costs and increases the availability of your system through online condition monitoring and diagnostics of each analog load cell.
- **Embeds Intelligence** – Embeds micro-processor intelligence into conventional strain gauge load cells.
- **Compatibility** – Compatibility to 2 mV/V or 3 mV/V analog load cells assures hassle-free load cell replacement.
- **Combine with the JAGXTREME Terminal** – Combine the RAAD Box with JAGXTREME, and predict, record and protect against failures and costly down time.



Produced in a facility that is



For more information, contact your authorized METTLER TOLEDO representative or one of the regional offices below.

	TEL	FAX		TEL	FAX	
<b>METTLER TOLEDO</b>	Australia (61-3) 9644 5700	(61-3) 9645 3935	<b>Kazakhstan</b>	(7-3272) 50 63 69	(7-3272) 60 88 35	<b>Internet</b> www.mt.com
<b>USA and Canada</b> 1900 Polaris Parkway Columbus, Ohio 43240	Austria (43-1) 604 1980	(43-1) 604 2880	<b>Korea</b>	(82-2) 518-2004	(82-2) 518-0813	
TEL. (800) 786-0038 (614) 438-4511	Belgium (32-2) 334 0211	(32-2) 378 1665	<b>Malaysia</b>	(603) 7041773	(603) 7031772	Specifications subject to change without notice.
FAX (614) 438-4900	Brazil (55-11) 421 5737	(55-11) 7295-1692	<b>Mexico</b>	(52-5) 547 5700	(52-5) 541 2228	
<b>Headquarters</b> 8606 Greifensee Switzerland	China (Industrial) (86-519) 6642040	(86-519) 6641991	<b>Netherlands</b>	(31-344) 638363	(31-344) 638390	© 2000 Mettler-Toledo, Inc.
TEL. (41-1) 944 22 11 FAX (41-1) 944 30 60	China (Systems) (86-21) 6485-0435	(86-21) 6485-3351	<b>Norway</b>	(47-22) 30 44 90	(47-22) 32 70 02	
	Croatia (385-1) 23 36 317	(385-1) 23 04 147*	<b>Poland</b>	(48-22) 651 9232	(48-22) 651-7172	Printed in USA.
	Czech Republic (420-2) 254962	(420-2) 24247583	<b>Russia</b>	(7-095) 921 9211	(7-095) 921 6353	
	Denmark (45-43) 27 08 00	(45-43) 27 08 28	<b>Singapore</b>	(65) 8900011	(65) 8900012	2M0900 Instrument Accessories IA03340.OEE
	France (33-1) 30 97 17 17	(33-1) 30 97 16 16	<b>Slovak Republic</b>	(421-7) 43 42 74 96	(421-7) 43 33 71 90	
	Germany (49-641) 50 70	(49-641) 52951	<b>Slovenia</b>	(386-61) 162 1801	(386-61) 162 1789*	
	Hong Kong (852) 27441221	(852) 27446878	<b>Spain</b>	(34-93) 223 2222	(34-93) 223 0271	
	Hungary (36-1) 257 9889	(36-1) 256 2175	<b>Sweden</b>	(46-8) 702 50 00	(46-8) 642 45 62	
	India (91-22) 857-0808	(91-22) 857-5071	<b>Switzerland</b>	(41-1) 944 45 45	(41-1) 944 45 10	
	Italy (39-02) 333321	(39-02) 356-2973	<b>Taiwan</b>	(886-2) 2579-5955	(886-2) 2579-5977	
	Japan (81-6) 6949-5901	(81-6) 6949-5944	<b>Thailand</b>	(66-2) 719 6480	(66-2) 719 6479	
			<b>United Kingdom</b>	(44-116) 235 7070	(44-116) 236 6399	*Call for fax.