

AD-4322A MKII

Weighing Indicator

Performance and Functions for a Fast, Complete Weighing System



Features

- High 1/20,000 resolution, 16 times/second sampling speed
- 10-key pad for easy tare value entry
- 100 code memory information blocks that contain Tare, Comparator limits, running code total weight, and number of weighing events for each separate coded item
- 50 tare weights can be stored in memory by I.D. number
- Full Digital Calibration eliminates the need to continuously load and unload calibration weights for setting Zero and Span
- Digital linearization function to compensate for non-linearity of load cells
- Gravity Compensation Function
- Lb/Kg Conversion
- Watchdog circuitry monitors the CPU and automatically resets the unit for normal operation if a software crash develops
- Completely screened from RFI for operation in environments high in electrical noise

AD-4322A MKII Specifications

Analog Input and A/D Conversion		Digital Section	
Input Sensitivity	greater than 0.6µV/d (d = "min. division" or "graduation")	Weight Display	High intensity 7-digits, 13mm(h) blue fluorescent
ZERO Adjustment Range	-6mV ~ +30mV	Tare Display	High intensity 8-digit, 11 mm(h) blue fluorescent
Load Cell Excitation	12V DC ±5% 280mA (up to 8 load cells at 350Ω/load cell)	Display Resolution	20,000 counts (max)
ZERO Temperature Coefficient	±(0.2µV + 0.0008% of dead load)/°C	Minimum Division	Times 1, x2, x5, x10, x20, x50
Span Temperature Coefficient	8ppm/°C of reading	Maximum Display	"999950"
Non-linearity	0.01% of full scale	Under ZERO Indication	"-" minus sign
Input Noise	±0.3µVp-p	"ZERO" Annunciator	Center of ZERO (0±0.25D)
Input Impedance	10MΩ (minimum)	"MD" Annunciator	Motion detection
A/D Conversion Method	3 phase, true integrating dual-slope type	"GROSS" Annunciator	GROSS Mode
A/D Resolution	330,000 counts max.	"NET" Annunciator	NET Mode
A/D Conversion Rate	Approx. 16 times/second (63m sec./conversion)	"TARE" Annunciator	Tare is currently displayed
General		"UNDER" Annunciator	Weight value is under set lower limit
Power	100, 117, 220, 240V AC +10% -15% 50/60Hz	"ACCEPT" Annunciator	Weight is over set lower limit, under set upper limit
Net Weight	Approximately 3.5kg (7.8 lb)	"OVER" Annunciator	Weight value is over set upper limit
Operating Temperature	-10°C ~ 40°C (14°F to 104°F)	"lb" Annunciator	Pounds displayed (lb or kg version)
Storage Temperature	-15°C to 85°C (-5°F to 185°F)	"kg" Annunciator	Kilograms displayed
Operating Humidity	Less than 85% (non-condensing)	"t" Annunciator	Tonne displayed (kg or t version)
Physical Dimensions	mm 310(W) x 149(D) x 192(H) inches 12.2(W) x 5.9(D) x 7.6(H)	STANDBY/OPERATE	Activates display and functions
Panel Cutout	mm 294 + 1.0/-0(W) x 174 + 0.5 /- 0(H)	ZERO Key	ZERO's the display when stable
Dimensions	inches 11.6 + 0.04/-0(W) x 6.9 +0.02/-0(H)	TARE Key	Tare when stable - in NET mode, display ZERO
Memory Battery Backup	Lithium, over six years without AC power	GROSS/NET Key	Changes from "GROSS" to "NET" and vice versa
		PRINT Key	Prints, or sends print command to printer via current loop OP-01 or OP-04
		CODE Key	Records CODE information "STORE" mode: Stores TARE weight into memory
		ID/TARE Key	"RECALL" mode: Recalls stored TARE weight from memory
		CLEAR Key	CLEAR's the stored TARE or CODE information
		ENTER Key	ENTER's the Display/moves to next level
		M+ Key	Adds displayed weight to memory
		M- Key	Subtracts displayed weight from memory
		TOTAL Key	Display the TOTAL weight in memory
		FEED Key	Paper feed (optional built-in printer, OP-08)

† Specifications are subject to change for improvement without notice

Options

- **OP-01**Parallel BCD Output
- **OP-02**External I/O
- **OP-04**Serial Interface (RS-232C/Current Loop)
- **OP-07**Analog Output (4~20mA)
- **OP-08**Built-in Printer (unit loses dust and water resistance)
- **OP-09**Time/Date (clock requires OP-08)
- **OP-10**Panel mounting kit

AND
A&D MERCURY PTY. LTD.
ACN 007 556 809
Head Office
32 Dew Street
THEBARTON
South Australia 5031
Telephone (08) 8352 3033
Facsimile (08) 8352 7409

Victorian Office
Unit 4
Cnr. Arden & Lloyd Streets
KENSINGTON
Victoria 3031
Telephone (03) 9372 1522
Facsimile (03) 9372 1193

Email: sales@andmercury.com.au
Internet page: <http://www.andmercury.com.au>

New South Wales Office
Unit 4
14 Abbott Road
SEVEN HILLS
New South Wales 2147
Telephone (02) 9674 5466
Facsimile (02) 9674 2544

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