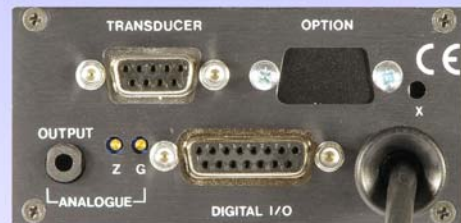


E725 Microprocessor Based Digital Indicator / Panel Meter



- LVDT amplifier
- Strain gauge transducer amplifier
- Digital display module
- Limit trips
- Serial output
- Voltage / 4-20mA output

Signal conditioning is required where the output of a transducer needs to be boosted or changed into a form suitable for the monitor or logging device which will be used. Our digital display units have a built-in monitor device in the form of the digital display as well as analogue output.

The E725 amplifier unit additionally has a serial output and limit trips with optional relays. Features such as auto-zero and MAX, MIN and TIR store are features which are also available with most versions of this unit.

A very wide range of gain adjustment ensures that our amplifiers are compatible with the vast majority of LVDT and strain gauge sensors available from any manufacturer.

| | | | |
|-------------------|---|-----------------------------|--------------|
| Supply voltage | | | |
| | Supply voltage | Operating temperature range | Total weight |
| Ac supply version | 115/230 (+5/-15%), 50/60Hz, 7VA | 14°F to 113°F | 1.1lb |
| Dc supply version | 5V(+50%, -10%) /12/24V (+50%, -25%) dc 7W | 14°F to 131°F | 15.2oz |

| | | | | |
|---|--------------------------|--|-----------------------|--|
| Option card (none or one may be selected) | | | | |
| Option code | Description | | | |
| 2AC | Second input of type AC | Transducers must have sensitivity within 15% of each other and display the same full scale value | | |
| 2DC1 | Second input of type DC1 | | | |
| 2DC2 | Second input of type DC2 | | | |
| 2DC3 | Second input of type DC3 | | | |
| FM | Fast peak catcher card | | | |
| R | Relay card (Mechanical) | Number of channels = 4 | Operation time = 20ms | Contact rating = 150V dc/125V ac, 30W/60VA |
| FR | Relay card (Mechanical) | Number of channels = 2 | Operation time = 5ms | Contact rating = 150V dc/125V ac, 30W/60VA |
| RS | Relay card (Solid-state) | Number of channels = 4 | Operation time = 20ms | Contact rating = 200V dc/130V ac, 200mA |
| FRS | Relay card (Solid-state) | Number of channels = 2 | Operation time = 5ms | Contact rating = 200V dc/130V ac, 200mA |

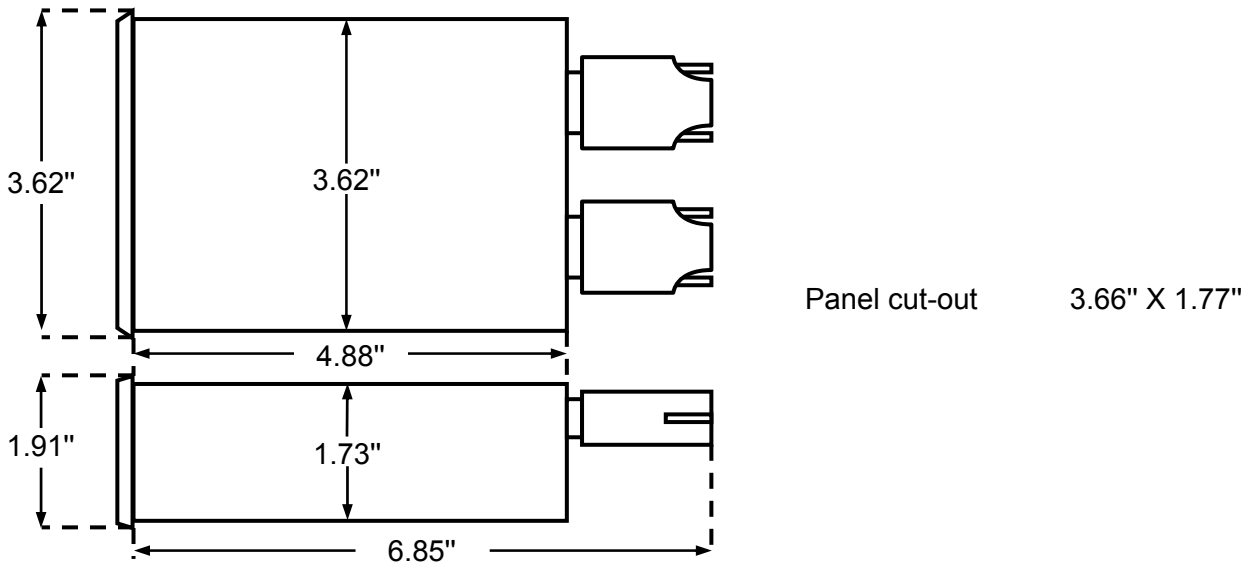
| | | | | |
|---|--------------------------|--|-----------------------|--|
| Option card (none or one may be selected) | | | | |
| Option code | Description | | | |
| 2AC | Second input of type AC | Transducers must have sensitivity within 15% of each other and display the same full scale value | | |
| 2DC1 | Second input of type DC1 | | | |
| 2DC2 | Second input of type DC2 | | | |
| 2DC3 | Second input of type DC3 | | | |
| FM | Fast peak catcher card | | | |
| R | Relay card (Mechanical) | Number of channels = 4 | Operation time = 20ms | Contact rating = 150V dc/125V ac, 30W/60VA |
| FR | Relay card (Mechanical) | Number of channels = 2 | Operation time = 5ms | Contact rating = 150V dc/125V ac, 30W/60VA |
| RS | Relay card (Solid-state) | Number of channels = 4 | Operation time = 20ms | Contact rating = 200V dc/130V ac, 200mA |
| FRS | Relay card (Solid-state) | Number of channels = 2 | Operation time = 5ms | Contact rating = 200V dc/130V ac, 200mA |

| | |
|------------------|--|
| Serial output | |
| Standard = RS232 | |
| Optional = RS485 | |

| Analogue output (This unit has both Voltage and 4-20mA outputs) | | | | | |
|---|-----------|----------|----------|------------------------------|-----------------------------------|
| Input Card Type | F.S. (-) | 0 | F.S. (+) | Output ripple (peak-to-peak) | Approximate zero adjustment range |
| AC Standard | +10V/20mA | +5V/12mA | 0V/4mA | 5mV / 20uA (typical) | ±1.5V |
| AC Special option 11 | +10V/20mA | 0v/4mA | -10V | | |
| DC Standard | +10V/20mA | 0V/4mA | -10V | 2mV / 30uA (typical) | |
| DC Special option 12 | +10V/20mA | +5V/12mA | 0v/4mA | | |

| | | | |
|------------------------|------------------------|-----------------------|------------------------------------|
| Limit trips (standard) | | | |
| E725 TTL output | Number of channels = 4 | Operation time = 15ms | Maximum source/sink current = 13mA |

| Other features | | | | | |
|--|--------------------|------------------------|----|------|--------|
| Description | DC1, DC2, DC3 & AC | 2DC1, 2DC2, 2DC3 & 2AC | FM | R/RS | FR/FRS |
| 3 modes may be programmed each with a different gain and offset from the primary channel | ✓ | — | ✓ | ✓ | ✓ |
| A, B, (A+B)/2, A-B | — | ✓ | — | — | — |
| Multi-point calibration, up to 11 calibration points to improve linearity | ✓ | — | — | ✓ | — |



Part number structure - (example, E725-230-DC1-R-0-0)

| E725 | Supply voltage | Input Card Type | Option card (none or one may be selected) | Serial output | Special option |
|------|----------------|--|---|---------------|----------------|
| 5 | =5Vdc | AC =Any standard RDP LVDT (without integral electronics). Most LVDTs from any manufacturer. | 0 =None | 0 =RS232 | 0 =0 |
| 12 | =12Vdc | | 2AC =Second input of type AC | 1 =RS485 | |
| 24 | =24Vdc | | 2DC1 =Second input of type DC1 | | |
| 105 | =105Vac | DC1 =Most full bridge strain gauge transducers | 2DC2 =Second input of type DC2 | | |
| 115 | =115Vac | DCTH, Sensagap & MCL | 2DC3 =Second input of type DC3 | | |
| 230 | =230Vac | Most amplified transducers from any manufacturer | FM =Fast peak catcher card | | |
| | | DC2 =Most 4-20mA transducers | R =Relay card (Mechanical) Number of channels = 4 Operation time = 20ms | | |
| | | DC3 =D2 & LDC | FR =Relay card (Mechanical) Number of channels = 2 Operation time = 5ms | | |
| | | | RS =Relay card (Solid-state) Number of channels = 4 Operation time = 20ms | | |
| | | | FRS =Relay card (Solid-state) Number of channels = 2 Operation time = 5ms | | |

All dimensions and specifications are nominal.

Due to our policy of on-going development, specifications may change without notice. Any modification may affect some or all of the specifications for our equipment.

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