The EMC 2063 Weight Processor is a state of the art weighing instrument that can be used with any loadcell based weighing system. As standard it provides a clear display of weight and has keys to tare and zero the weighing system. Calibration may be done with known weights or by entering loadcell capacity and sensitivity.

Weights may be totalised with the total key or the unit may be configured to automatically totalise when a stable weight is reached.

Peak weight readings are captured and can optionally be displayed.

In-motion weighing can be performed for high speed check weigh systems.

As an option, tare weights may be entered manually.

With simple user fitted options, the EMC 2063 can be expanded to provide connection to a PLC, computer and remote display or printer.

Key locks allow unrequired key functions to be disabled.

Three switch inputs allow remote control of the instrument.

The EMC 2063 may be used with intrinsic safety barriers for hazardous area applications.

**Relay Option**

Two types of relay are available. OP-R1 is a 3 relay option and OP-R2 is an 8 relay, 8 switch input option.

These options provide up to 8 programmable setpoints for limits, batching and check weighting.

Each of the setpoint values can be operator adjustable or pre-set. The relay contacts may be set to open or close at setpoint. Four of the setpoint relays have adjustable hysteresis, an optional delay to operate and a latch at setpoint option.

**Analog Output Option**

The analog output gives a programmable current output. It can also be used for voltage output. Any weight signal can be selected for output.

**Communications Option**

The serial option cards can be used as a fully programmable printer output or can be used for communications with computer or PLC. RS422/485 provide multi-drop capability.

A clock allows printing of time and date.

A pulse output allows connection of external totalisers.
**SPECIFICATIONS**

**Inputs**

LOADCELL INPUT
- Input Range: ±33mV.
- Excitation: 10Vdc ±10%, 240mA maximum current. (Current reduces as more options are added).
- Update rate: 100 per second.
- Signal processing rate: 100Hz (response time settling <0.5s). (120Hz at 60Hz mains frequency).
- Input sensitivity: 0.5µV/division maximum.
- Range zero: ±25mV.
- Span drift: ±0.005%/°C typical.
- Non-linearity: <0.006% of FS.
- Input noise: 0.5µVp-p typical.
- Filtering: 3rd order digital filter. Adjustable response times of 0.05s to 5.0s.
- Input impedance: >1000M ohms.

**Switch Inputs**

- Sense input: 99k input impedance. Voltage range 5-10V.
- Input impedance: >1000M ohms.

**Relay Option**

RELAY OUTPUTS
- Isolated clean contact rated at 250Vac 2A for general use.

**Connections**

**Dimensions**

- PANEL cut out 144 x 72mm
- FACIA 144 x 72mm
- PANEL 72mm
- HOUSING Panel mounted according to DIN 43700. Facia cover is polyester membrane which is dust and splash proof to IP65.

**Analog Output Option**

**Analog Output** Isolated 0 to 20mA/10-5V maximum range (max. load 500 ohms for 4-20mA). User calibrated within these limits. An external resistor is used to convert mA to volts. For example 560 ohms gives 10V at 17.5mA. Resolution better than 1 in 5000. Non-linearity <0.01%. Drift <2µA/°C. Response time = response time setting+20ms.

**Communications Option**

**Interface** Isolated RS232 serial with handshaking or RS422/485. Baud rate selectable between 300, 600, 1200, 2400, 4800 and 9600. Includes real time clock.

**General**

**Display**
- 6 digit LED display with 14mm high digits. Sub display is 8 digit LED with 7mm high digits. Weight reading in 100 to 15,000 divisions. Count by 1, 2, 5, 10, 20 or 50.

**Power Supply**

- Standard option is 240Vac +10% -15%. Refer to the order code for other available options.

**ORDERING**

To order, specify the type code and any options that are required.

**PRODUCT**

Weight Processor 2063

**Power Supply**

- 240Vac +10% -15%
- 115Vac +10% -15%
- 24Vac +10% -15%
- C

**Options (user installable)**

- Analog output (isolated) OP-A1
- Relays (3 relay outputs) OP-R1
- Relays (8 relays, 8 switch inputs) OP-R2
- Communications (isolated RS232) OP-C0
- Communications (isolated RS232, clock & pulse output) OP-C1
- Communications (isolated RS232/485, clock & pulse output) OP-C2

Only one of each type of option may be fitted.

**EXAMPLE OF ORDER CODE 2063-A, OP-R1**

**Other units in the EMC2060 Weighing Series**

**EMC 2060 Weight Indicator** - basic weight indicator with relay option, analog output option and communications option.

**EMC 2061 Weight Indicator** - similar to 2060 but with trade approval.

**EMC 2064 Weigh Batch Controller** - weight indicator with batch control features. Analog output and communications options.

**EMC 2065 Continuous Weigh Batchers** - optimised for continuous batching such as bagging systems and process weighers. Batch continuously, to a set weight or to a set batch number. Allows for flowrate measurement and control. Analog output and communications options.

**Available from**

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