#### POWER ON

# 6004MF

Multi Function Weighing Transmitter



# Introduction

Welcome to the weighing electronics world of the Multi-Function Model 6004 MF. Using the latest ARM microprocessor technology we are now able to offer a powerful, compact, field-mount unit that you can select for a variety of weighing functions at a cost-effective price. The main advantage to the user, servicing organisation or marketing company is having one electronic unit that can be used for almost any application in the weighing industry.

# Applications

- Loadcell Transmitter
- Beltweigher
- Loss-in-weight Transmitter
- Through-put Weigher
- Bag-filler
- Batchweigher
- O Dynamometer



ETURATY LEVEL

TRANSMITTERSETTING

# Features

Rugged, powder coated, cast Aluminum IP65 housing with splashproof keypad Clear 20mm 6-digit LED main display & auxiliary information LCD display Inputs from loadcell, incremental encoder & six digital Powerful ARM microprocessor with integral clock & USB I/O port Programming, keypad using LCD or PC via USB with supplied software User-programmable function keys, digital inputs and relay outputs Precalibration of sensitivity and range, zero trim and deadweight span trim Lineariser 16-point, min/max hold, auto-zero maintenance, preset tare PI control with auto-manual setpoints, bumpless transfer, anti-reset wind-up Bootloader for remote firmware updates and program specials fields Outputs for isolated analog 1-5/0-10Volts or 0/4 - 20mA Power supply 95-265Vac switchmode or 10-30Vdc isolated

### Options

Output electro-mechanical relay or photomos 2, 4 or 6, plug & play, programmable functions Serial outputs, RS232, RS485, plug & play Formats in ASCII, Modbus or do-it-yourself Buildabus SD memory card for storing commissioning setup or data logging GPS, factory fit, for accurate position recording with on-board weighing

### Specifications

#### Display

Main Display : 6 digit, -199 999 to 999 999, 20mm red LED Auxiliary display : Graphic backlit LCD

#### **Operation and Programming**

Programming via on-board LCD and Keypad, USB and SD Card port for alternate programming and setup information storage and data logging Field firmware upgrades and customerisation on site via SD Card Bootloader for remote internet firmware updates and program specials

#### **Input Amplifier**

20 Bit serial Analog to Digital convertor Zero 0.1µV/°C, Span 20ppm typical. Conversion rate ±8/second, link selectable. Sensitivity selection in mV//V.

#### Excitation

Selectable for SET value for external excitation source or MEASURE for internal excitation source with value programmable from 3.5V to 12Vdc as measured on the sense terminals

#### **Digital Inputs**

Encoder and six digital inputs for potential free contacts

#### **Analog Outputs**

Isolated 0-5/10Volt, 0/4-20mA 16 bit Digital to Analog convertor Repeatability 0.01%FS ±1 count

#### Communications

Isolated USB standard, optional Isolated RS232 or RS485. ASCII protocol

#### **Relay Ouputs**

Optional two, four, six elecro-mechnical 2A, 230Vac change-over Two, four, six solid state photomos 0.5A 400V ac/dc normally open

#### **Power Supply**

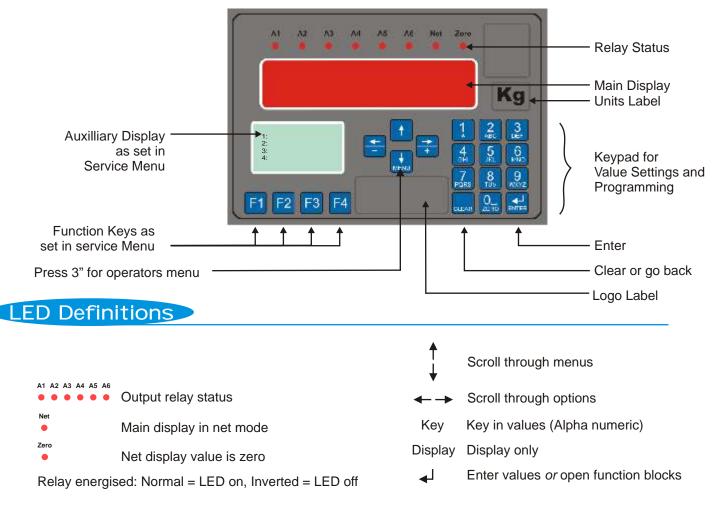
95-265 Vac or 10-30 Vdc isolated. Consumption about 10VA

#### **Regulatory Compliance**

Conforms to EC Directives 9/33/EEC and 73/23/EEC

# Display and Controls

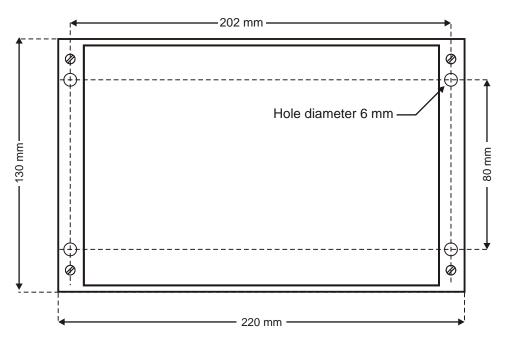
### Keypad during run/programming mode



### Dimensions

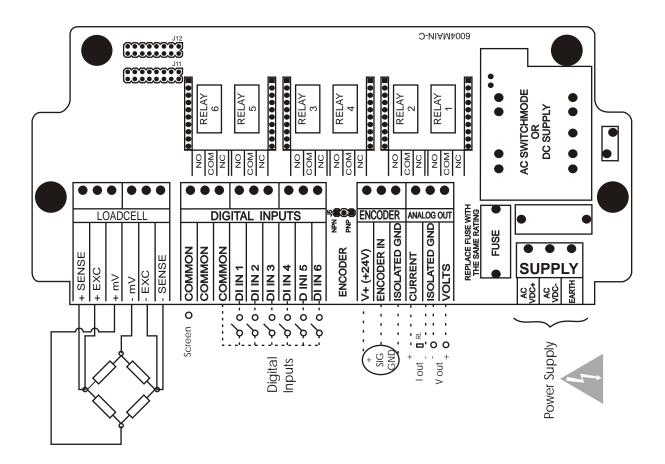
- The housing trim covers need to be removed to gain access to the mounting holes.

- Not to Scale.
- Height of 130 mm, excludes cable glands
- Depth of 70 mm



# Wiring Connections

## Wiring connections, jumpers and fuse replacement



### GUARANTEE

This product is guaranteed against faulty workmanship or defective material, for a period of two (2) years from date of delivery. The manufacturer undertakes to replace without charge all defective equipment which is returned to them (transportation costs prepaid) during the period of guarantee provided there is no evidence that the equipment has been abused or mishandled in any way.



