

## START PROGRAMMING

|  
Select a FUNCTION number to suit the  
sensor and purpose of use.

|  
Select SPECIAL FUNCTION numbers  
to set preferences (engineering units  
setpoints etc).

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PROGRAMMING COMPLETE

This manual has been designed for the unskilled user with no programming expertise. All features and options are selected by a single number selection procedure. There are FUNCTIONS and SPECIAL FUNCTIONS for selection. The FUNCTIONS select the basic operation of the Unimeter. The SPECIAL FUNCTIONS select all options and features to work with the basic selected Function. This will give the user thousands of options, if required.

Typical Functions are: Voltmeter (F 110) Rate Monitor (F 95) Efficiency Monitor (F 166) Temperature Monitor (F 30)  
Frequency Counter (F 105) Servo Controller (F 202) Time Cloc  
(F 131)

Typical Special Functions: User Offset (SP 1) Setpoint Levels (SP6,7) PID Control (SP 21) Peak Hold (SP 239)  
Setpoint Hysteresis (SP 240) Sample and Hold (SP 28)

### EXAMPLE

A system is required to measure, indicate and control the speed of a conveyor. The indication should be in metres per minute and a setpoint should give a control signal above 150 metres per minute.

Hardware requirements are: 1 Unimeter, 1 Proximity Detector.

The Proximity Detector is mounted to the conveyor drive shaft, sensing each revolution, and connected to the Unimeter as per instructions.

### Programming

STEP 1      Select Function 95 (Rate Monitor)

STEP 2      Run the conveyor at a fixed speed and note the Unimeter display ( say this is 25.00 ). Measure the actual speed of the conveyor ( say this was 87.00 m/min) Now program the

SPAN via Special Function 2 by  
entering 3.48 ( $87.00/25.00 = 3.48$ )

STEP 3 Set Setpoint 1 at 150 metres per minute by entering 150.0 via Special Function 6

STEP 4 (Select other Special Functions if required)

This concludes the programming procedure for the above application. All other applications or options that may be required are selected by the same consistent method.