



Portable Programming Unit, 139 PPU

FEATURES

- * Microprocessor based hand-held Unit
- * Rechargeable battery
- * Auto Power-off facility
- * 16 character dot-matrix LCD Display
- * Dedicated keys for user friendly operation
- * Noise immune infra-red communication
- * Password protection for important functions
- * Certified Intrinsically-safe for use in Hazardous area

INTRODUCTION

139-PPU is a hand-held Portable Programming Unit (PPU) for programming / calibration of the Servo Gauge 139 through an infra-red link. It is a certified Intrinsically-safe apparatus for use in Gr. IIA, IIB Hazardous areas and belongs to category 'ia' with temperature class T6 as per IS: 5780-1980

The PPU works on a 9-volt rechargeable battery. Use of an infra-red link provides a high degree of noise immunity in communication with Servo Gauge. The PPU works in two modes - Programme mode & Command mode. A single key toggles the display and key-pad between two modes.

In Command Mode, PPU can be used to calibrate the Servo Gauge or can put in in various measurement modes like level, density, interface level etc. In Program mode it can program Alarms, Displacer Volume, Motor/Encoder Factor etc. Calibration & Programming is under password protection.

The PPU can also be used for trouble-shooting the encoder of Smart Data Transmitter (STDT) under the Program Mode. A special cable for connecting PPU to STDT encoder is available as an optional accessory.

CONSTRUCTION

The light-weight enclosure of PPU comprises a CPU card, a Mod-Demod card, a moulded Battery pack and a membrane type keyboard with 28 keys. PPU is fitted with two round shell connectors at the top for connecting to Servo Gauge and Battery charger. The D-25 connector for interfacing STDT encoder is fitted on the left side of enclosure.

STANDARD ACCESSORIES:

- * Battery Charger - 1 No.
- * PPU to Servo Gauge Cable Assembly - 1 No.
- * Carrying Case for PPU - 1 No.

OPTIONAL ACCESSORIES:

- * PPU to STDT encoder assembly



SPECIFICATIONS

- * Battery: 9 Volts, 100mAH, Ni-Cd rechargeable
- * Continuous Operation time: more than 2 hours
- * Charging time for full charge: 14 hours approx.
- * Communication with Servo Gauge: Via Infra-red link
- * Display: 1/4", 16 character dot-matrix LCD
- * Operating Temperature: -10 to + 60 Deg.C
- * Humidity: 90% RH, non-condensing
- * Weight: 750 gms.

FUNCTIONS:

- * Command Servo Gauge for Parameter Measurements
- * Calibration of Servo Gauge
- * Programming of Alarm Values
- * Encoder & Motor Factor programming
- * Displacer Volume programming
- * Trouble-Shooting of Servo Gauge
- * Trouble-Shooting of STDT

ORDERING CODE: 139 - PPU

SAFETY CERTIFICATE:

139-PPU is certified **Intrinsically Safe** apparatus vide Central Mining Research Institute (CMRI), Dhanbad report No. CMRI/TC/318 dated 02.07.1997 for Gr. IIA, IIB and belongs to category 'ia' with temperature class T6 as per IS: 5780-1980

*** Continuous developments may necessitate changes in specifications without notice

LF-139-0806-R04 (W) 02/2003

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