

**Specification (Measurement)**

**Transport and Main Roads Specifications  
MRS232 Provision of Field Processors**

**July 2017**

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## 1 Introduction

This Specification applies to the requirements for the supply, installation, testing, commissioning and handover of maintenance documentation for materials and equipment associated with Field Processors (FP).

This Specification forms part of the Transport and Main Roads Specifications Manual and should be read in conjunction with MRS01 *Introduction to Specifications* and other Specifications as appropriate.

## 2 Measurement of Works

### 2.1 Standard Work Items

In accordance with the provisions of Clause 2 of MRS01 *Introduction to Specifications*, the Standard Work Items covered by this Specification are listed in Table 2.1.

**Table 2.1 – Standard Work Items**

Standard Item No.	Description	Unit of measurement
<b>Field processor</b>		
64601	Supply of Field Processor with [4 / 8] serial communications ports	each
64602	Recovery of Field Processor with [4 / 8] serial communications ports for re-use	each
64603	Installation of Field Processor with [4 / 8] serial communications ports	each
64604	Supply and installation of Field Processor with [4 / 8] serial communications ports	each
<b>Ancillary items</b>		
64631	Provision of Field Processor [EIA/RS RS232   EIA/RS RS422   USB] cable	each
<b>Removal of existing equipment</b>		
64691	Removal of Field Processor for disposal	each

### 2.2 Work operations

#### Item 64601 Supply of Field Processor with [4 / 8] serial communications ports

Work operations incorporated in the above item include:

- a) Work operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) general equipment requirements stated in MRTS201, and
- c) supply, fabrication, design and testing of equipment listed in Section 6.1 of MRTS232 in accordance with the requirements of MRTS232.

#### Item 64602 Recovery of Field Processor with [4 / 8] serial communications ports for re-use

Work operations incorporated in the above item include:

- a) Work operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*

- b) disconnection of electrical supply, including termination and 'making safe' of supply cable
- c) disconnection of telecommunications connection
- d) recovery of Field Processor and ancillary equipment from within the field cabinet, and
- e) transport of all components to Principal's storage facility or designated site storage area for re-use.

**Item 64603 Installation of Field Processor with [4 / 8] serial communications ports**

Work operations incorporated in the above item include:

- a) Work operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) general equipment requirements stated in MRTS201
- c) installation and testing of equipment in accordance with the requirements of MRTS232
- d) programming of Serial Site Identifier, and
- e) provision of handover documentation in accordance with MRTS201 and MRTS232.

**Item 64604 Supply and installation of Field Processor with [4 / 8] serial communications ports**

Work operations incorporated in the above item include:

- a) Work operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) general equipment requirements stated in MRTS201
- c) supply, fabrication, design, installation and testing of equipment listed in Section 6.1 of MRTS232 in accordance with the requirements of MRTS232, and
- d) provision of handover documentation in accordance with MRTS201 and MRTS232.

**Item 64631 Provision of Field Processor [EIA/RS232 | EIA/RS422 | USB] cable**

Work operations incorporated in the above item include:

- a) Work operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) general equipment requirements stated in MRTS201
- c) supply of Field Processor (EIA/RS232 | EIA/RS232 |USB) cable, and
- d) provision of handover documentation in accordance with MRTS201 and MRTS232.

**Item 64691 Removal of Field Processor for disposal**

Work Operations incorporated in the above item include:

- a) Work operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) disconnection of electrical supply, including termination and 'making safe' of supply cable
- c) disconnection of telecommunications connection
- d) removal of Field Processor and ancillary equipment from within the field cabinet, and
- e) transport of all components and disposal.

### **2.3 Method of measurement of field processor**

This Specification provides Standard Work Items for:

- a) supply only
- b) installation only, and
- c) supply and installation

of Field Processor and ancillary equipment.

Any combination of Standard Work Items relating to these methods of measurement may be used in the Schedule of Rates. However, where a Standard Work Item for supply and installation of a particular component or group of components is included in the Schedule of Rates, no supply only, recovery only nor installation only Standard Work Item shall also apply to that component or group of components as applicable.

### **2.4 Supply of materials**

Any materials to be supplied by the Principal will be as stated in Form C6827 Principal Supplied Material List. All other material shall be supplied by the Contractor.

The responsibility for transport to the Site of materials supplied by the Principal shall be as stated in Form C6827 Principal Supplied Material List. Transport to the Site of all other materials shall be the responsibility of the Contractor.

