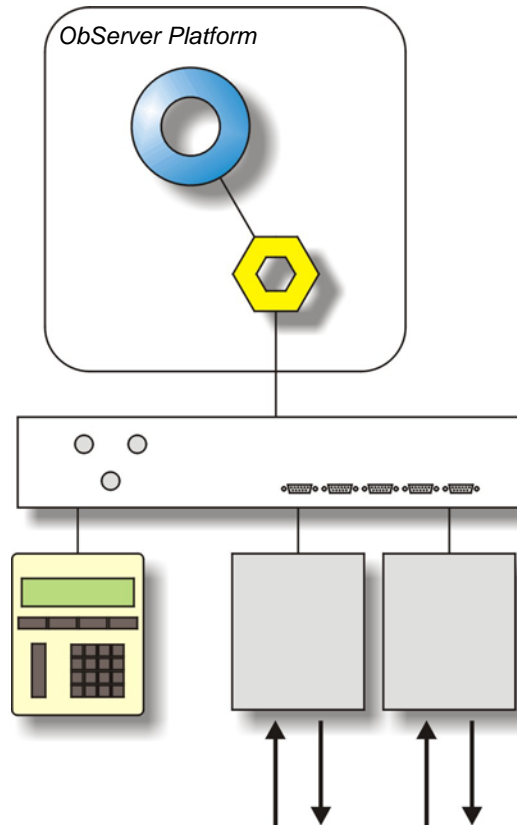# Product Engineering Guide

OSM v20 Geoquip v10

Introduction

The Geoquip OSM links the Geoquip perimeter detection system via a GWMPX-1B control unit to ObServer.

Engineering

Step 1 – Install OSM

The Geoquip OSM is installed automatically with all ObSys editions. Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

Step 2 – Configure Geoquip System

When the Geoquip system is powered on the Multiplex Control Console (GWMPX-1C) needs to be configured with the number of outstations. After entering the Manager passcode (default: 1111), select the 'stations' option and enter the number of outstations. Select 'comms' to ensure the communication system is healthy. Then exit.

Step 3 – Connect COM Port to Geoquip System

Using cable, connect the 9-way RS232 port marked 'SPARE' on the GWMPX-1B control unit to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 4 – Plug in Geoquip OSM to ObServer

Use object engineering software to locate the ObServer Setup object. Assign the Geoquip OSM to an available channel. Refer to *'ObServer v10 Application Engineering Guide'.*

Note: After inserting the OSM, your engineering software may need to re-scan the ObServer object in order to view the OSM.

Step 5 – Configure Geoquip OSM

The COM port, device label, alarm polling facilities, and alarm destination are configured using objects. Use object engineering software to view and modify the module objects within the OSM.
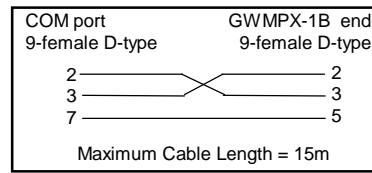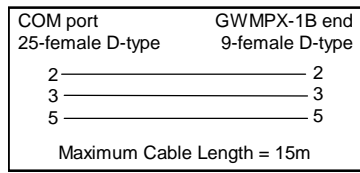
Step 6 – Access Objects within the Geoquip System

Values from the Geoquip system are made available as objects from ObServer. Any object software that is connected to the ObServer can access these objects.

Engineering Reference

Cable Specification

The cable between COM port and the 9-way RS232 port marked 'SPARE' on the GWMPX-1B control unit is as follows:

```
COM port            GWMPX-1B end
25-female D-type     9-female D-type
2 ——————————————— 2
3 ——————————————— 3
5 ——————————————— 5

Maximum Cable Length = 15m
```

```
COM port            GWMPX-1B  end
9-female D-type      9-female D-type
2 ——————————————— 2
3 ———————\/——————— 3
7 ———————/\——————— 5

Maximum Cable Length = 15m
```

Objects

When the OSM is loaded the following objects are created within ObServer, use object software to access these objects.

Object[1]	Label	R/W	Type
S*c*	Geoquip System connected to channel *c*	-	*[Geoquip v10]* [2]
M*c*	Geoquip Module connected to channel *c*	-	*[OSM v20\Geoquip v10]*

Notes

[1] The ObServer channel number, *c*, is a number in the range 1…40.

[2] This object has a variable content and as such requires scanning.