

(HOST→SENSOR)

	Starting Point (3 Digits)	End Point (3 Digits)	Cluster Count (2 Digits)
LF (0aH) or CR (0dH)			

When the data is less than 64 bytes:

(SENSOR→HOST)

	Starting Point (3 Digits)	End Point (3 Digits)	Cluster Count (2 Digits)	LF
Status	LF			
Data	LF	LF		

When the data is exactly 65 bytes (Full N Block):

(SENSOR→HOST)

	Starting Point (3 Digits)	End Point (3 Digits)	Cluster Count (2 Digits)	LF
Status	LF			
Data Block 1 (64 Byte)	LF			
.....	LF			
Data Block N (64 Byte)	LF	LF		

When the data is more than 65 bytes (Full N Block with excess of n bytes):

(SENSOR→HOST)

	Starting Point (3 Digits)	End Point (3 Digits)	Cluster Count (2 Digits)	LF
Status	LF			
Data Block 1	LF			
.....	LF			
Data Block N-1 (64 Byte)	LF			
Data Block N (n Byte)	LF	LF		

To obtain the data, assign the starting point, end point and cluster count. Sensor groups the multiple neighboring points assigned by the cluster count. The minimum value from each group is supplied as distance data to the host.

Starting Point (0~768): Point of the area from where the data reading starts.

Example: "000" (30H, 30H, 30H).

End Point (0~768): Point of the area where the data reading stops.

Example: "768" (37H, 36H, 38H).

Cluster Count (0~99): Number of neighboring points that are grouped as a cluster.

Example: "01" (30H, 31H).

TITLE	COMMUNICATION PROTOCOL SPECIFICATION - URG SERIES	DRAWING NO.	
-------	---	-------------	--